

APPENDIX D

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APPENDIX D

UTILITY ASSESSMENT

D.1. INTRODUCTION

This appendix provides information on the utility type, location, capacity, reliability, availability, and costs. Note that the utility costs and capacities reported herein are based on current usage patterns and operating costs, and are subject to change prior to the anticipated solicitation issue date. Contractors should verify the validity of this data prior to submitting any cost proposal

The Portsmouth Gaseous Diffusion Plant (PORTS) was constructed in the mid-1950s with the inclusion of adequate site utilities, with the exception of imported electrical power and telecommunications, to function as a stand-alone operation. PORTS has an on-site steam plant, water treatment plant, wastewater treatment plant, compressed air plants, and storm water management system. These systems have been in operation with nominal preventive maintenance and only upgraded as required to remain functional.

In the late 1970s, the Gas Centrifuge Enrichment Plant (GCEP) was constructed adjacent to the diffusion plant. Existing utilities were extended to the GCEP site and a recirculating heating and cooling water system was placed in service plant-wide as applicable. The proposed Depleted Uranium Hexafluoride site is located north of the GCEP plant site.

The United States Enrichment Corporation (USEC) currently leases and operates the gaseous diffusion plant facilities and utilities from the U.S. Department of Energy (DOE). All utility rates will need to be negotiated with USEC or commercial vendors and listed rates will reflect current USEC and commercial vendor rates to DOE. USEC has announced their intention to halt production operations at PORTS and progressively return the facilities and utilities to DOE. This assessment is based on continued operation of the site utilities by DOE at current costs. USEC has decided to discontinue operations of the gaseous diffusion plant within a year; this decision could impact availability and cost of utilities.

D.2. UTILITY IDENTIFICATION, HISTORY, AND DESCRIPTION

D.2.1 INTERPLANT ROADWAYS

The proposed site roadways were constructed during the mid 1950s and late 1970s and are 6 in. of asphalt over a 9-in. stone base rated to handle 85,000-lb gross vehicle weight loading. The Contractors Road on the south side of the site is a mixture of old paved roads and crushed stone surfacing in sections. These roads have received only repairs and little routine maintenance.

D.2.2 SANITARY WATER AND FIRE WATER

Raw water is pumped from three well fields adjacent to the Scioto River near Piketon, Ohio, to the X-611 Water Treatment Facility originally constructed with the diffusion plant. The X-611 facility has been upgraded progressively over time to remain in compliance with State of Ohio drinking water standards. The overall distribution system consists of underground steel pipelines within the diffusion plant and the proposed site.

D.2.3 RECIRCULATING HEATING AND COOLING WATER

Recirculating cooling water is provided by the X-630 Cooling Tower pump house. The steel underground piping distribution system was installed in the late 1970s and early 1980s. Recirculating supply and return is available on the west side of the X-744T Building.

Recirculating heating water is process water heated by the diffusion plant process, and the distribution system consists of underground steel piping. Due to the shutdown of the GCEP cascade, which is planned for next year, this utility should not be available.

D.2.4 ELECTRICITY

The Ohio Valley Electric Corporation (OVEC) is the electric utility providing service to the PORTS facility. OVEC operates 387 miles of 345-kV double-circuit transmission lines and five electrical substations with interconnections with four major utility systems. The PORTS site is serviced by four double-circuit 345-kV feeds. There are also two single circuit 345-kV and two 138-kV connections serving the site. There are also two single-circuit 345-kV connections and two 138-kV connections with American Electric Power for backup. The transmission system is protected by three zones of relaying with fast-acting carrier current relaying as the primary protection. Electrical power to the proposed site is available from two 13.8 kV aerial lines. One runs north-south through the center of the proposed site and the other runs north-south along the west side of the site. All systems maintain completely redundant capabilities.

D.2.5 NATURAL GAS

Natural gas service is not available at the site. Service is available from Pike Natural Gas Company's main gas line near Zahn's Corner, Ohio, approximately 5 miles north of the proposed site.

D.2.6 TELECOMMUNICATIONS

The PORTS site currently has two Fujitsu-Omni S3 telephone switches with 2300 existing line connections. Service to the proposed site is limited and will require upgrading for capacity. This service will need to originate in the X-540 Building and can be installed in existing wire ways except for the last 600 feet to the site. The PORTS site feed lines are copper cables capable of handling analog and digital signals through the Piketon, Ohio, exchange. Long distance service is through the Federal Telephone System. Commercial phone service is available. The site distribution system contains both copper and fiber optic units.

D.2.7 STEAM

The X-600 Steam Plant at PORTS is a coal fired steam plant constructed in the Mid 1950's to supply steam to the diffusion plant. The above ground steel piping distribution system ends at the X-330 Building. This system currently has a capacity of 4600 pounds per hour and there is the possibility of extending service to the proposed site. However, based on various GCEP/USEC shutdown scenarios, this utility may not be available since the full capacity of the steam plant may be dedicated to providing existing facilities with heat.

D.2.8 SEWAGE

Sewage treatment at the PORTS site is provided by the X-6619 Sewage Treatment Facility. This plant was constructed in the late 1970s. The system is activated sludge using plug flow processes, aerobic digestion, secondary clarification, and granular-media filtration for effluent polishing. Postchlorination is used to produce a bacteriologically safe effluent, and the final product is dechlorinated with sulfur dioxide before discharge to the Scioto River at National Pollutant Discharge Elimination System Permit Outfall 003. Sewage from the proposed site can report to the X-6619 facility via gravity pipelines within and adjacent to the site.

D.2.9 STORM WATER DRAINAGE SYSTEM

The proposed site has a developed and functioning storm water system consisting of open ditch and some very limited storm drains adjacent to the existing buildings that discharge to open ditches.

D.2.10 COMPRESSED AIR

Compressed instrument quality air is available at the X-330 Building and will require extension to the site. The distance to the service is approximately 950 feet. The available capacity is 1500 scfm.

D.2.11 NITROGEN

Nitrogen is currently received in liquid bulk form and with limited distribution to the GDP process buildings. The posed site would require a bulk receiving facility.

D.3. UTILITY CAPACITY, RELIABILITY, AND AVAILABILITY

D.3.1 INTERPLANT ROADWAYS

The interplant roadways can handle 85,000-lb gross vehicle weight loads. Pavement lane widths range from 9 to 22 ft. Paved roads exist at the proposed site. Costs are limited to repair if damaged due to concentrated construction traffic. Roads used will be returned to as-found condition.

D.3.2 SANITARY WATER, COOLING WATER, AND FIRE WATER

Sanitary water is available adjacent to the west side of the proposed site. Flow rate is 250 GPM. Service is an underground steel pipeline with an approximate age of 45 years. The system is looped throughout the site resulting in good reliability. Water cost through the USEC lease is \$1.105 per 1000 gallons. Fire protection water is available at a rate of 8,250 gallons per minute also at the same location and cost. Fire protection water is supplied by underground steel pipelines with the same history and reliability as sanitary water lines.

D.3.3 RECIRCULATING HEATING AND COOLING WATER

Recirculating cooling water is available adjacent to the site to the west at a rate of 6050 gpm. Cost is \$0.92 per 1000 gal. Reliability of the system is moderate due to age and corrosion of the steel supply pipelines.

Recirculating heating water is currently available adjacent to the site on the north and west sides at a rate of 6040 gpm. Recirculating heating water is process water heated by the diffusion plant process. Therefore, due to the planned shutdown of the GCEP cascade next year, this utility should not be available.

D.3.4 ELECTRICITY

The X-530ASwitch Yard has a capacity of providing a normal load of 140 MW with a peak load of 210 MW at a rate of \$0.02 per kilowatt-hour with a high degree of reliability. This service is available at the switchyard and house and will require upgrade to the proposed site.

D.3.5 NATURAL GAS

Natural gas is not available at the site. The service is available 5 miles north of the site at 150,000 ft³/hour and a cost of \$0.35 per 100 ft³ based on 90,000-ft³/hour rate.

D.3.6 TELECOMMUNICATIONS

Telephone service is available at the X-540 Building and will require upgrading to the proposed site. Very limited service is available adjacent to the site. The switch currently has 2300 copper wire lines. The cost for long distance service is \$0.10 per minute. Reliability is good.

D.3.7 STEAM

Steam is currently available at 4600 pounds per hour at 125 psig from the X-600 Steam Plant via overhead steel lines currently located adjacent to the X-330 Building. There is the possibility of extending service to the proposed site, which would require an 800-foot extension. However, based on various GCEP/USEC shutdown scenarios, this utility may not be available since the full capacity of the steam plant may be dedicated to providing existing facilities with heat. Reliable is projected to be good.

D.3.8 SEWAGE

The X-6619 Sewage Treatment Plant has a design capacity of 700,000 gal/day and currently has 400,000 gal/day excess capacity available at a rate of \$4.755 per 1000 gal. Sewer lines are available adjacent to the site. The system is very reliable.

D.3.9 STORM WATER DRAINAGE SYSTEM

The storm water management system was installed when the proposed site was rough graded in the mid 1950s and again in the early 1980s. Cost would be maintenance driven. Reliability is fair.

D.3.10 COMPRESSED AIR

The available capacity is 1500 scfm and reliability is rated as good.

D.3.11 NITROGEN

Nitrogen is supplied in liquid bulk form and service to the proposed site would require a bulk tank instillation. Extension of existing facilities not believed suitable.

D.4. UTILITY COSTS

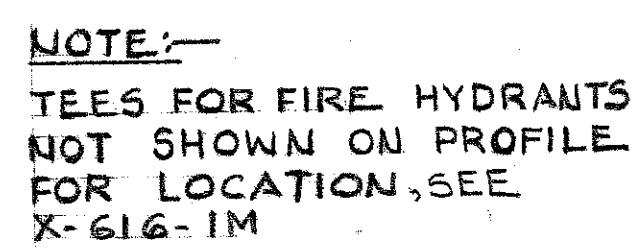
See Chap. D.3.

D.5. SITE UTILITY DRAWINGS

Drawing No.	System
X-616-10M	Utility Site Plan & Details
X-2215A-1999-E	Underground Power Distribution System
X-2215B-2001-E	Underground Power Distribution – Area I
X-2215B-2004-E	Underground Power Distribution – Area 4
X-2215B-2011-E	Underground Power Distribution – Area II
X-2220D-3011-E	Underground Communication – Area II
X-2220D-3001-E	Underground Communication – Area I
X-2220D-3004-E	Underground Communication – Area 4
X-2230B-16-C	Sanitary Sewer System
X-230A-2006-M	Temp. & Perm. Water Line
X-230A-79-M	Sanitary Fire Water System
X-230A-28-C	Sanitary & Fire Water System
X-230B 78-C	Sewage System
X-230B 77-C	Sewage System
X-230C-1.9.-C	Plant Storm Drain System
X-230G-4M	R.C.W. Waste Line
X-230G-5M	R.C.W. Waste Line
X-5015-9C	345 U.G. System
X-5015-9.1C	345 kV U.G. System
X-5015-1C	345 kVU.G. System
X-5015-1.1C	345 kVU.G. System
X-5015-10C	345 kVU.G. System
X-2230-23-C	Underground Piping
X-2230-20-C	Underground Piping

D.6. UTILITY TIE-IN POINTS

The locations of the tie in points for the utilities are discussed in Chap. D.3 and are shown on the utility drawings.



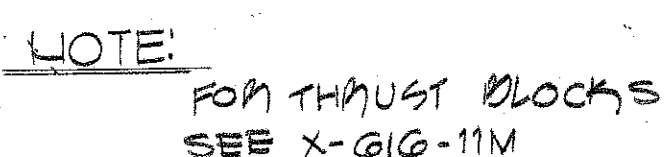
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1" = 5' VERTICAL



SCALE: 1"=50' HORIZONTAL
1"=5' VERTICAL

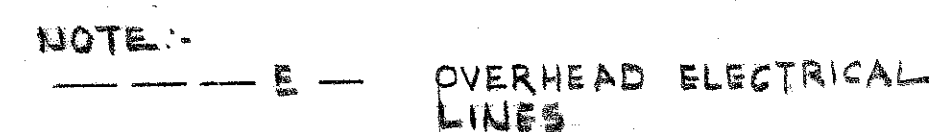


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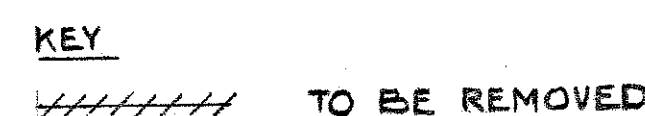
INFLUENT FORCE MAIN PROFILE

SCALE: 1"=50' HORIZONTAL
1"= 5' VERTICAL



EFFLUENT FORCE MAIN PROFILE

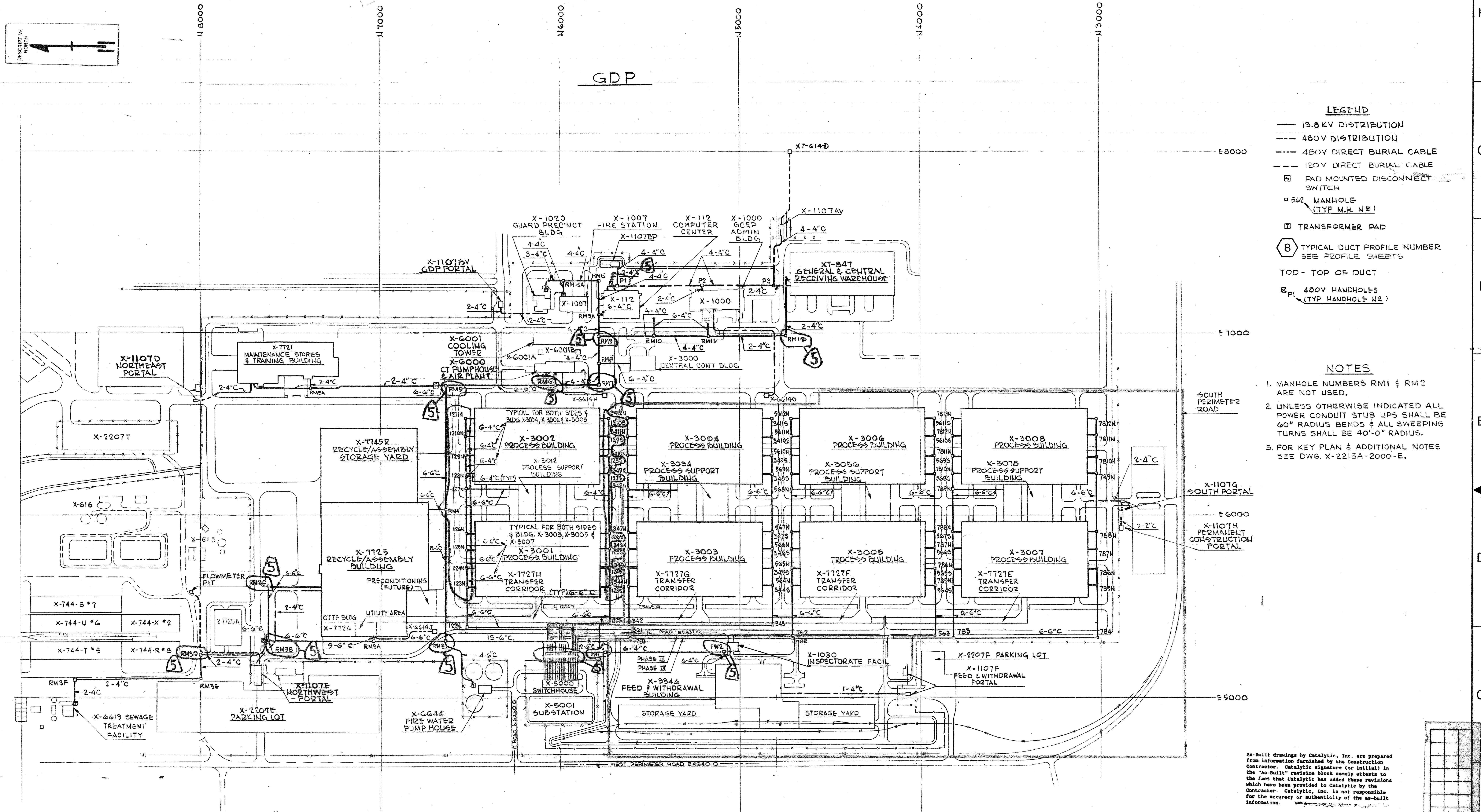
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EFFLUENT FORCE MAIN PROFILE

SCALE: 1" = 50' HORIZONTAL
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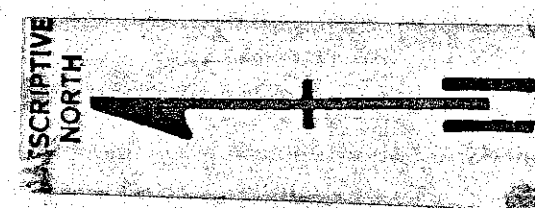
- NOTES**
- MANHOLE NUMBERS RM1 & RM2 ARE NOT USED.
 - UNLESS OTHERWISE INDICATED ALL POWER CONDUIT STUB UPS SHALL BE 60" RADIUS BENDS & ALL SWEEPING TURNS SHALL BE 40'-0" RADIUS.
 - FOR KEY PLAN & ADDITIONAL NOTES SEE DWG. X-2215A-2000-E.

NOTE: CONTRACTOR PERFORMS WORK IN ENCIRCLED AREAS ONLY. SEE DWG. 761-1135-E

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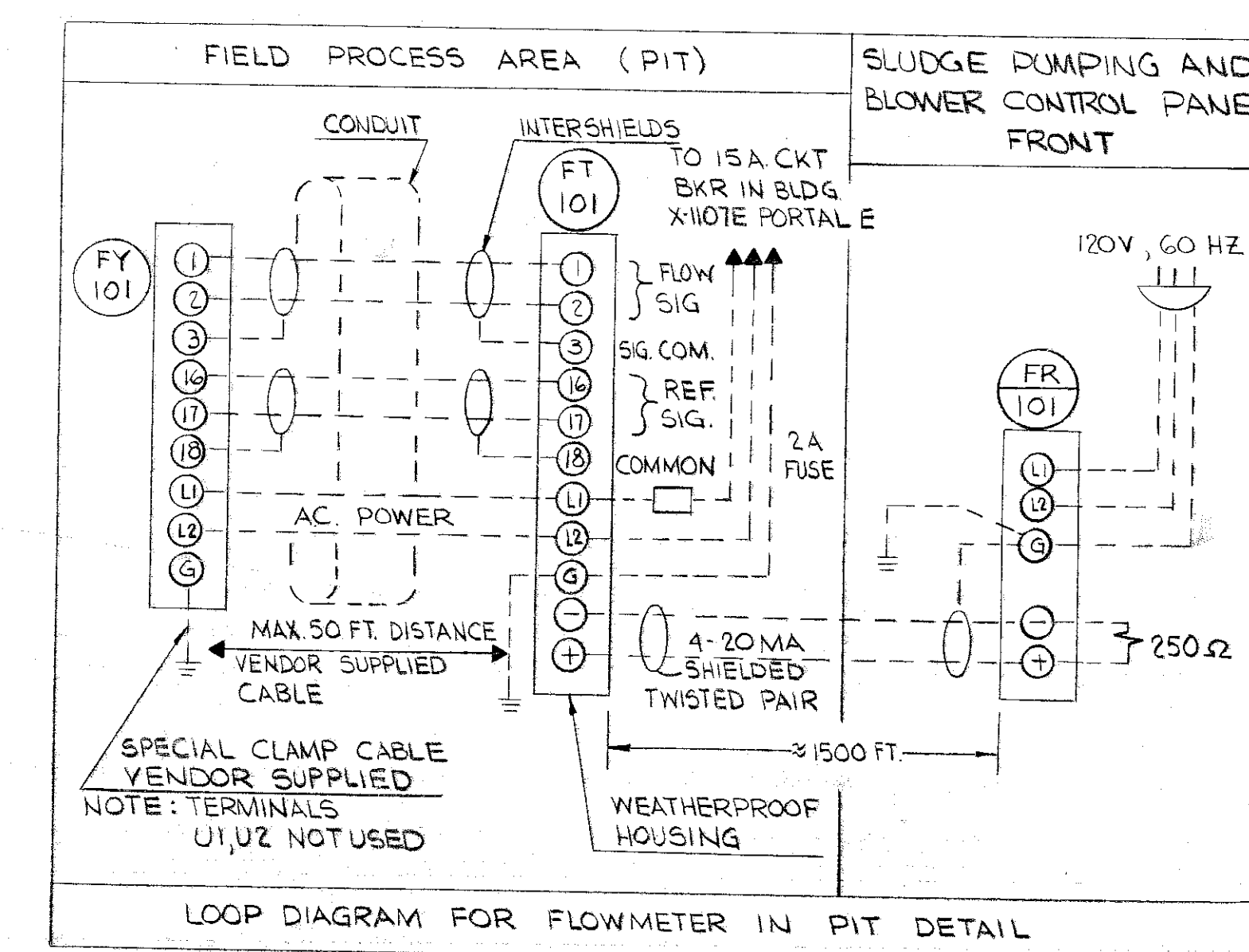
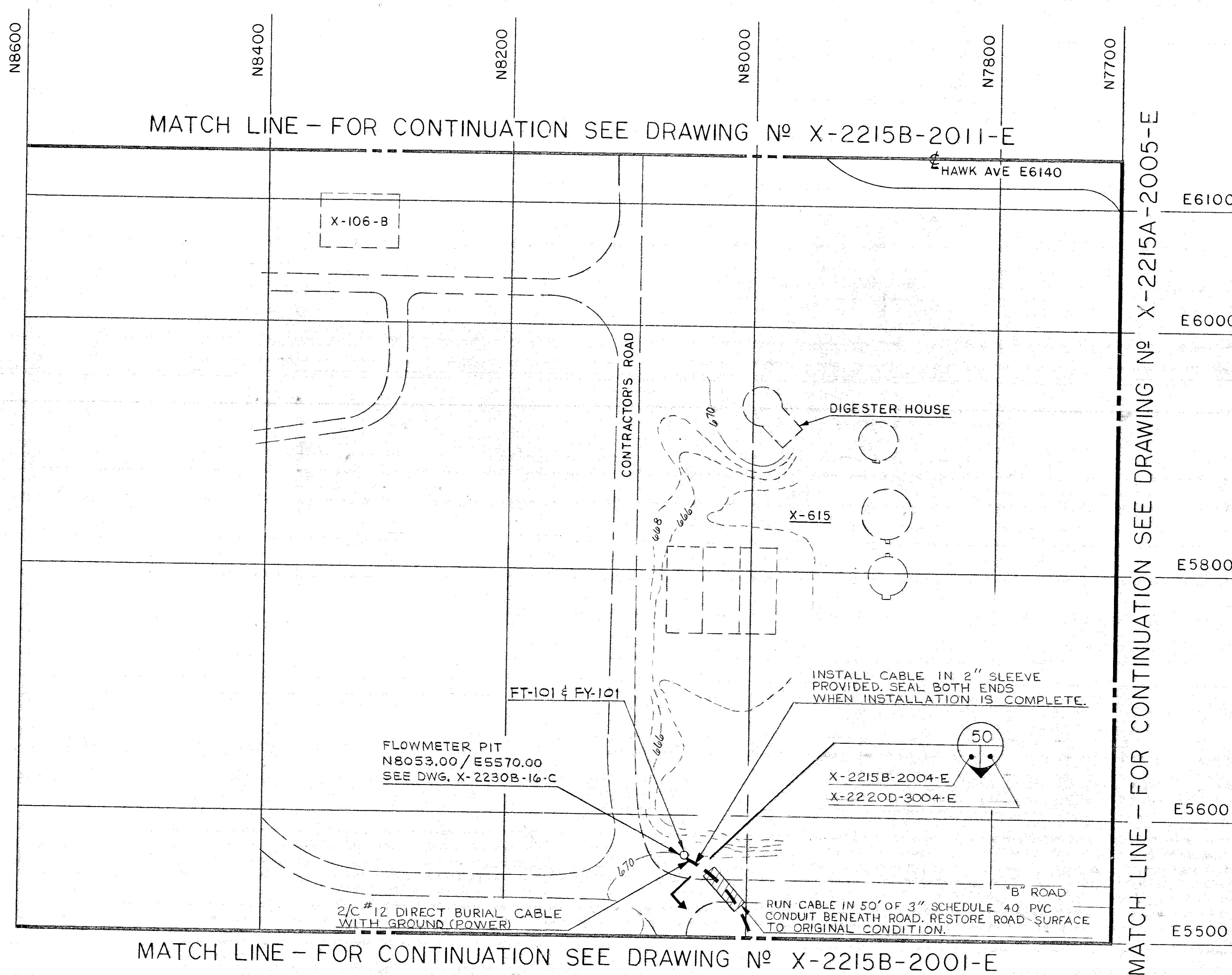
INFORMATION ONLY
(QL) Lifetime Quality Records

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NOTES:

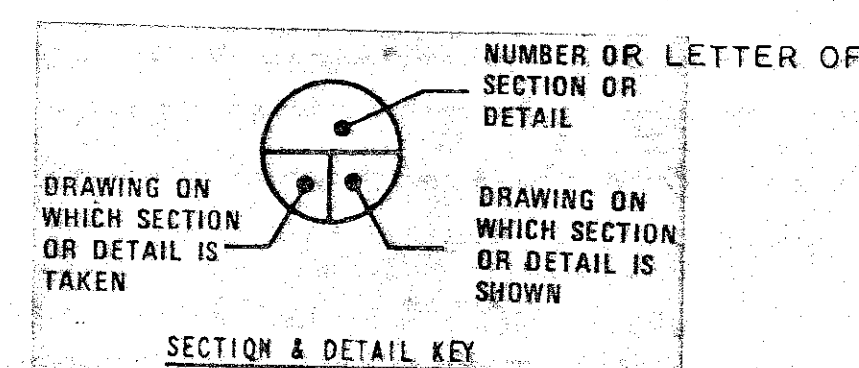
1. SEE DWG. X-2215A-2000-E FOR ADDITIONAL INFORMATION.
2. FOR INSTALLATION DETAIL OF FY-101, FT-101 & FR-101, SEE DWG. X-2230B-16-C & X-6619-4-C1 DETAIL.



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"AS-BUILT DRAWING"

(QL) Lifetime Quality Records

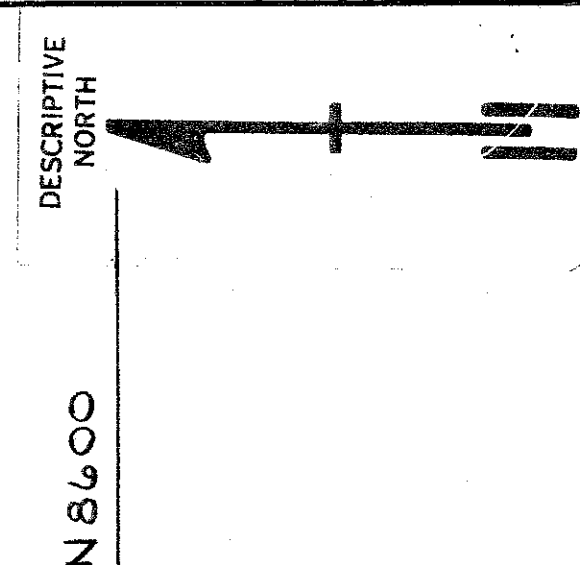


APPROVALS				DATE
C. R. PAGLIOTTI DRAWN				9/16/80
C. S. CILIBERTI CHECKED				10/6/80
D. Hani CHIEF				10/16/80
A. P. Rosa A.E.				11/10/80
J. B. Cantone OCPO				11/10/80
L. B. Thompson EPEO ENGRG.				11/10/80

PROJECT		SUBPROJECT		TITLE	
DE AC05 76ET 05132		GAS CENTRIFUGE ENRICHMENT PLANT		UNDERGROUND POWER DISTR	
PHILADELPHIA, PENNSYLVANIA		OUTSIDE UTILITIES (518)		PLAN - AREA 4	

PLANT	BLDG	FLOOR	SHT	OF	CLASS
PORTSMOUTH, OHIO					U


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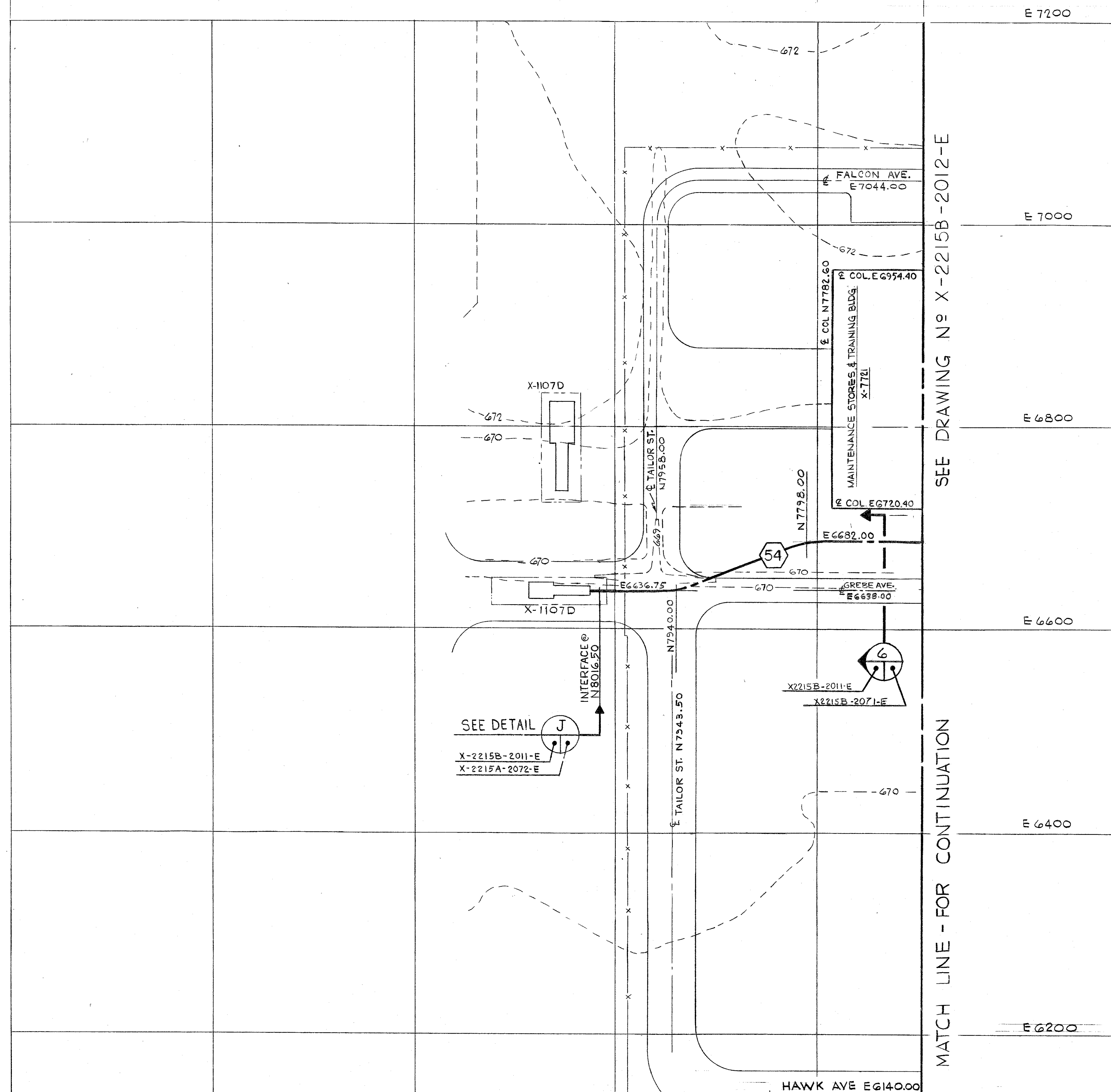


NOTES

1. SEE DWG X-2215A-1999 -E FOR ADDITIONAL INFORMATION.

PROFILE KEY

	DWG. N°
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SEE DRAWING No X-2215B-2012-E

MATCH LINE - FOR CONTINUATION

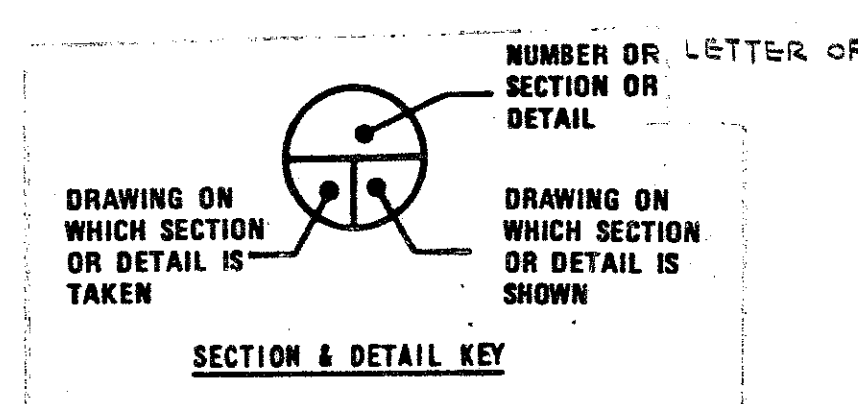
As-Built drawings by Catalytic, Inc. are prepared from information furnished by the Construction Contractor. Catalytic signature (or initial) in the "As-Built" revision block namely attests to the fact that Catalytic has added these revisions which have been provided to Catalytic by the Contractor. Catalytic, Inc. is not responsible for the accuracy or authenticity of the as-built information.

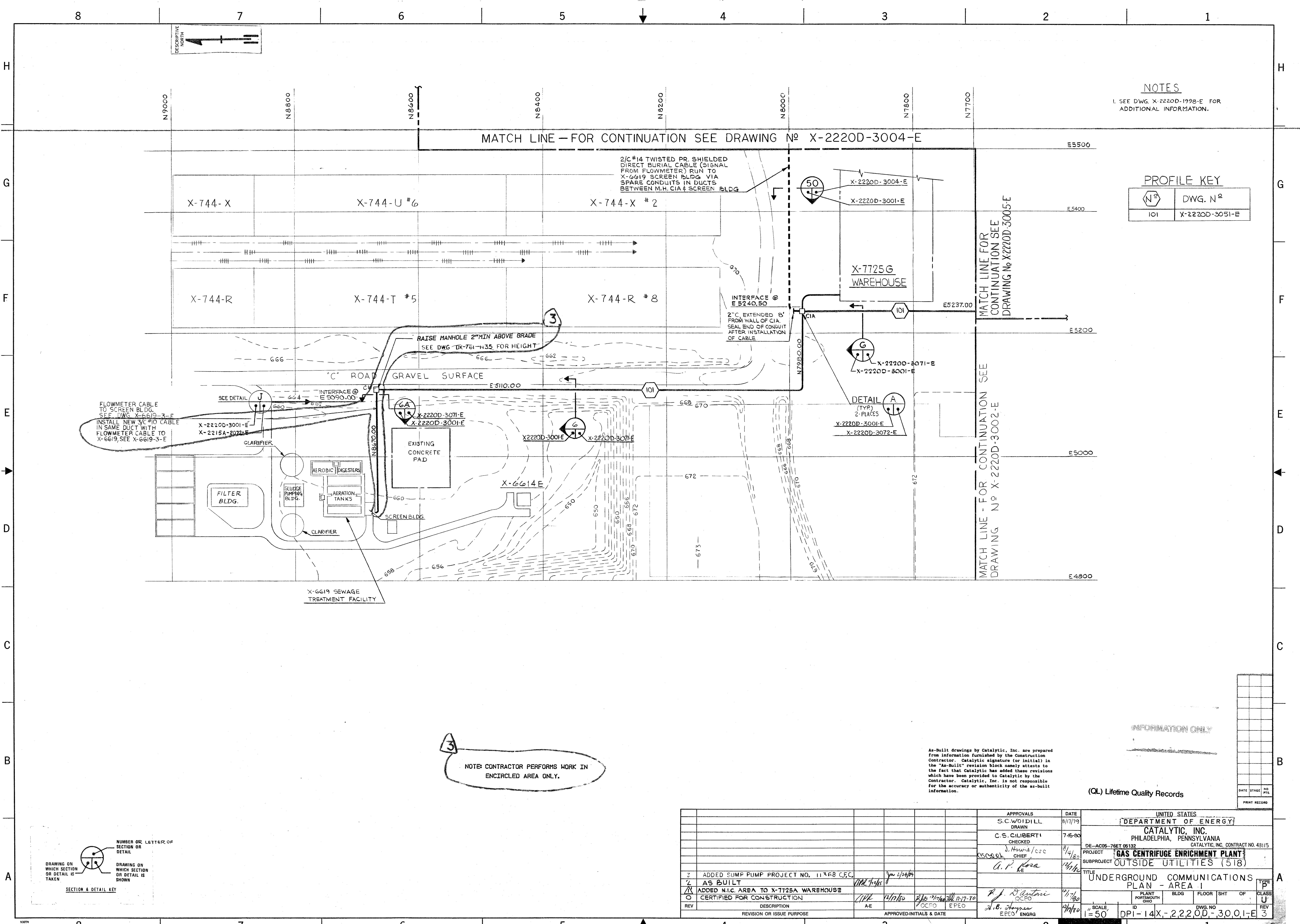
INFORMATION ONLY

"AS-BUILT DRAWING"

(QL) Lifetime Quality Records

MATCH LINE - FOR CONTINUATION SEE DWG. N° X-2215B-2004-E

[illegible]



NOTES
1. SEE DWG. X-2220D-1998-E FOR
ADDITIONAL INFORMATION.

PROFILE KEY	
	DWG. N ^o
101	X-2220D-30051-E

MATCH LINE FOR CONTINUATION SEE
DRAWING N^o X-2220D-3005-E

MATCH LINE - FOR CONTINUATION SEE
DRAWING N^o X-2220D-3002-E

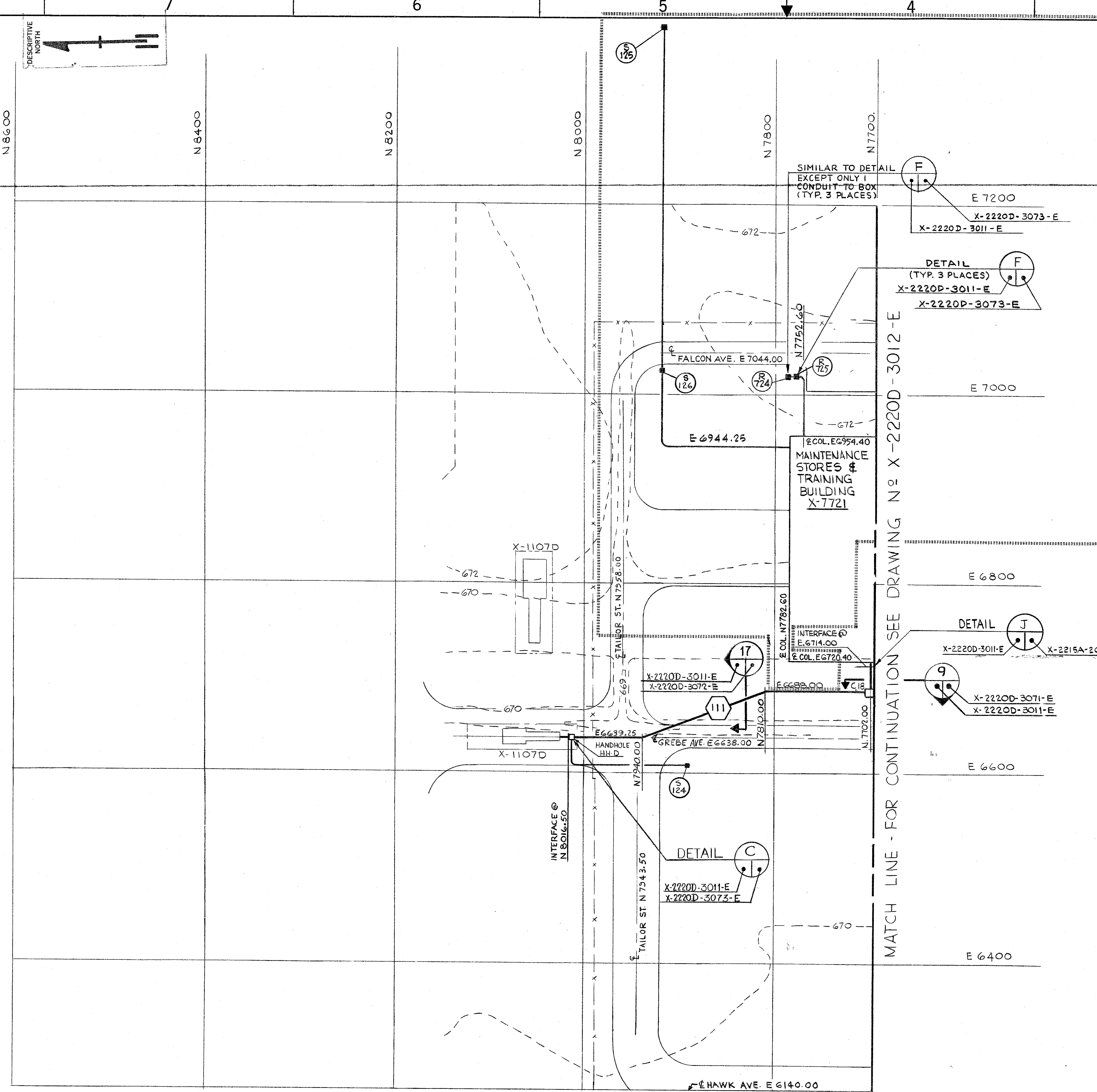
3
NOTE: CONTRACTOR PERFORMS WORK IN
ENCIRCLED AREA ONLY.

As-Built drawings by Catalytic, Inc. are prepared from information furnished by the Construction Contractor. Catalytic signature (or initial) in the "As-Built" revision block namely attests to the fact that Catalytic has added these revisions which have been provided to Catalytic by the Contractor. Catalytic, Inc. is not responsible for the accuracy or authenticity of the as-built information.

(QL) Lifetime Quality Records

SECTION & DETAIL KEY	
	NUMBER OR LETTER OF SECTION OR DETAIL
	DRAWING ON WHICH SECTION OR DETAIL IS SHOWN

APPROVALS		DATE	UNITED STATES	
S.C. WOODILL		8/17/79	DEPARTMENT OF ENERGY	
C.S. CLIBERT		7-15-80	CATALYTIC, INC.	
J. Howe/csc		8/4/80	PHILADELPHIA, PENNSYLVANIA	
A.P. Jose		12/1/80	CATALYTIC, INC. CONTRACT NO. 43115	
R.J. Santoni		11/7/80	PROJECT GAS CENTRIFUGE ENRICHMENT PLANT	
A.B. Ayres		12/1/80	SUBPROJECT OUTSIDE UTILITIES (518)	
REVISION OR ISSUE PURPOSE		APPROVED INITIALS & DATE	TITLE UNDERGROUND COMMUNICATIONS PLAN - AREA I	
3	ADDED SUMP PUMP PROJECT NO. 11368 CEC	11/2/80	PLANT PORTSMOUTH OHIO	
2	AS BUILT	11/2/80	BLDG	
1	ADDED N.I.C. AREA TO X-7725A WAREHOUSE	11/2/80	FLOOR	
0	CERTIFIED FOR CONSTRUCTION	11/2/80	SHT	
REV	DESCRIPTION	DATE	OF	
	A-E	11/2/80	CLASS	
	OCPO	11/2/80	U	
	EPEO	11/2/80	REV	
			3	



NOTES
1. SEE DWG. X-2220D-1998-E FOR ADDITIONAL INFORMATION.

PROFILE KEY	
N ³	DWG. N ²
III	X-2220D-3053-E

POST INDICATOR VALVE FWD PIPING LOCATIONS			
VALVE N ²	NORTH CO-ORDINATE	EAST CO-ORDINATE	REMARKS
S124	7885.00	6614.00	
S126	7920.00	7026.50	
S125	7920.00	7386.00	
R724	7790.50	7022.00	
R725	7787.00	7022.00	

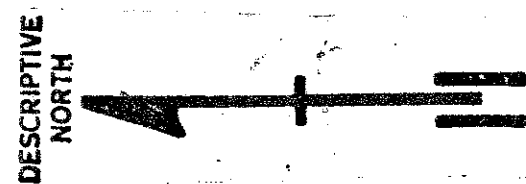
As-Built drawings by Catalytic, Inc. are prepared from information furnished by the Contractor. Catalytic signature (or initials) in the "As-Built" revision block namely attests to the fact that Catalytic has added these revisions which have been provided to Catalytic by the Contractor. Catalytic, Inc. is not responsible for the accuracy or authenticity of the as-built information.

"AS-BUILT DRAWING"

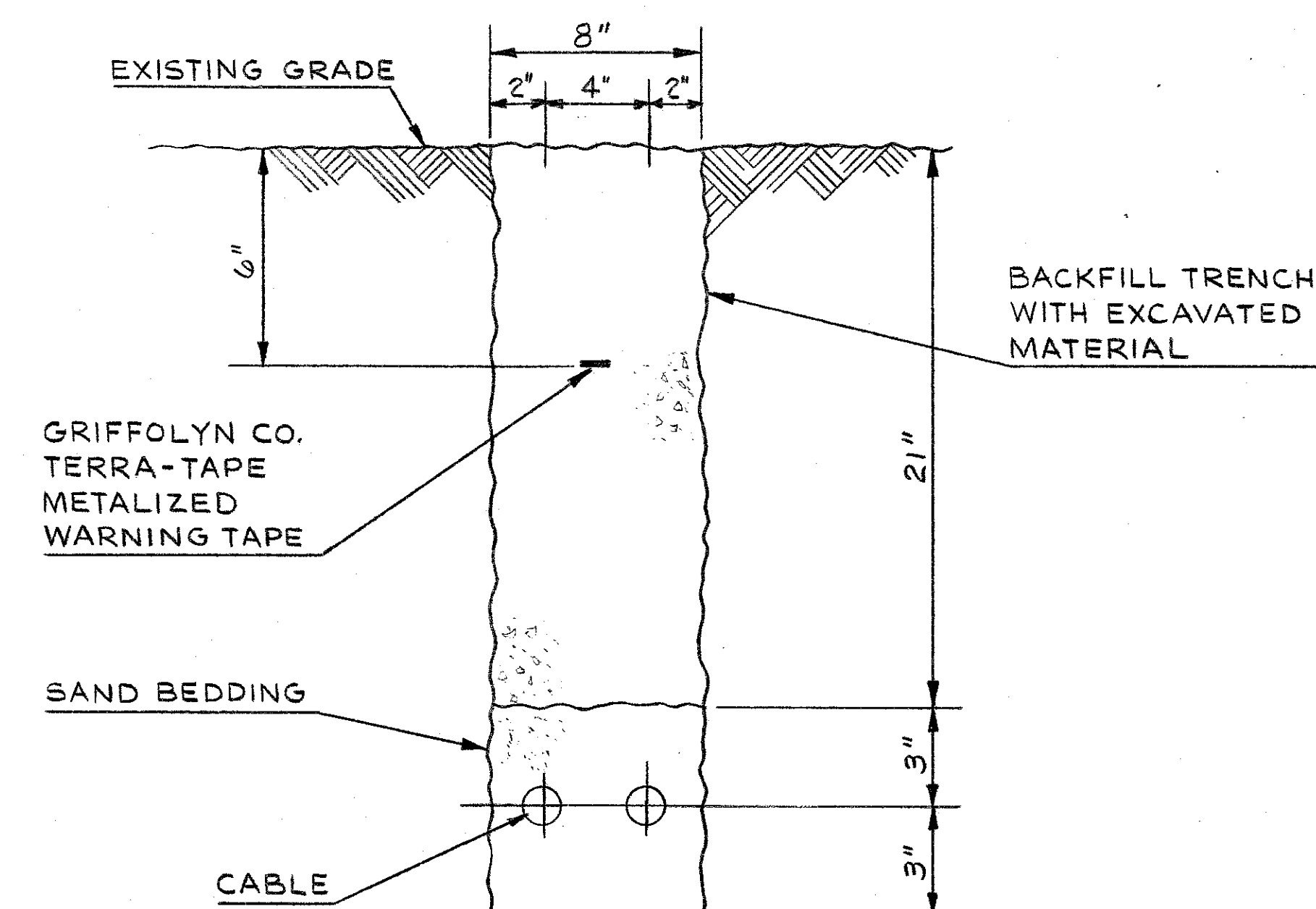
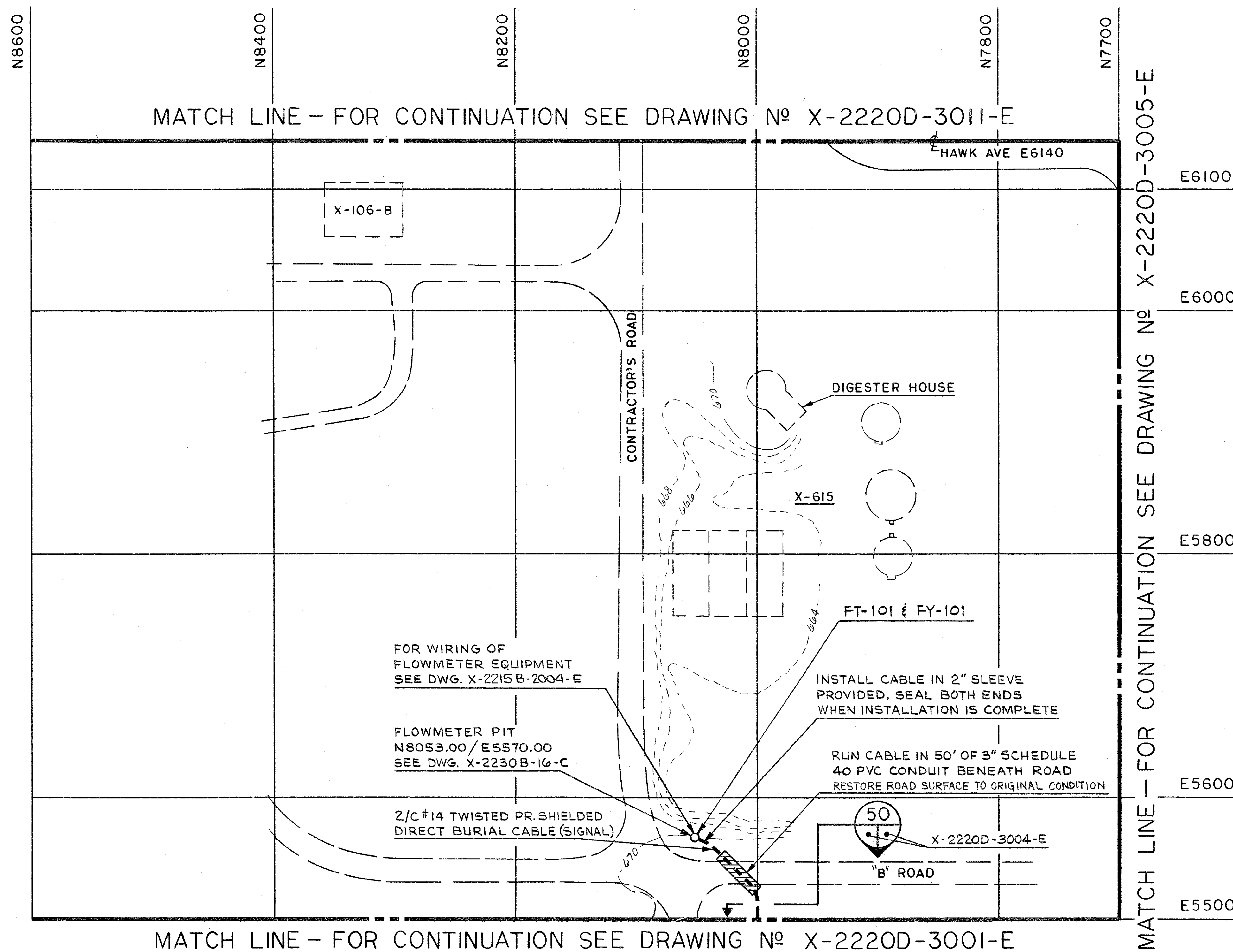
(QL) Lifetime Quality Records

SECTION & DETAIL KEY	
	NUMBER OR LETTER OF SECTION OR DETAIL
	DRAWING ON WHICH SECTION OR DETAIL IS TAKEN
	DRAWING ON WHICH SECTION OR DETAIL IS SHOWN

APPROVALS		DATE	UNITED STATES	
K. FLETCHER		8/2/79	DEPARTMENT OF ENERGY	
C.S. CLIBERTI		7-16-80	CATALYTIC, INC.	
CHECKED			PHILADELPHIA, PENNSYLVANIA	
J. Howe / C.C.		8/4/80	CATALYTIC, INC. CONTRACT NO. 43115	
CHIEF			PROJECT GAS CENTRIFUGE ENRICHMENT PLANT	
A.P. Kora		12/1/80	SUBPROJECT OUTSIDE UTILITIES (518)	
AE			TITLE UNDERGROUND COMMUNICATIONS	
R.J. Santore		12/1/80	PLAN - AREA II	
OCPO			PLANT PORTSMOUTH OHIO	
D.E. Hansen		12/1/80	BLDG FLOOR SHT OF CLASS	
EPEO ENGR			DWG. NO. 14X-2,220D-3011-E	
REV		DESCRIPTION	SCALE 1"=50'	
AE		12/1/80	ID	
OCPO		12/1/80	REV	
EPEO		12/1/80	TYPE	
REVISION OR ISSUE PURPOSE		APPROVED-INITIALS & DATE	CLASS	
4 AS BUILT		12/1/80	U	
3 ADDED P.I.V.'S R724, R725 & R726 AND CONDUIT RUN FROM THESE VALVES TO BLDG X-7721. ALSO REV. BLDG. LOC. PER LATEST INFO. ADDED DETAIL REF.		7/12/80	REV	
2 ADDED DETAIL REF. TO VALVE S125 & CONDUIT RUN FROM TAILOR ST. TO BLDG X-7721.		7/12/81	1	
1 REVISED BLDG. X-7721 PER NEW LOCATION		12/1/80	2	
0 CERTIFIED FOR CONSTRUCTION		12/1/80	3	

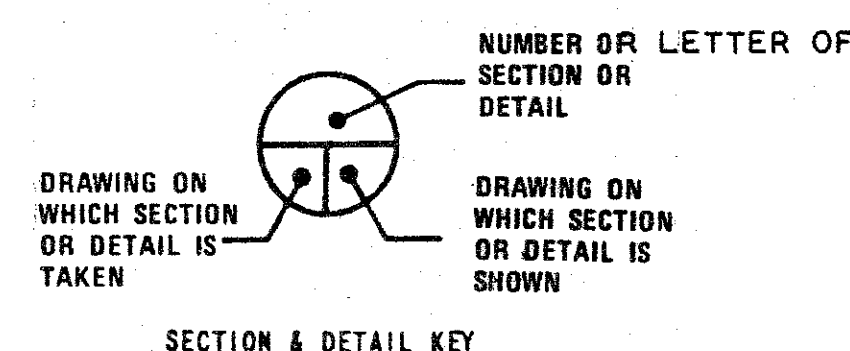


NOTES:
1. SEE DWG. X-2215A-2000-E FOR ADDITIONAL INFORMATION.



SECTION 50
N.T.S.
POWER & COMMUNICATIONS PLANS
X-2220D-3004-E

TYPICAL CROSS SECTION
OF DIRECT BURIED CABLE

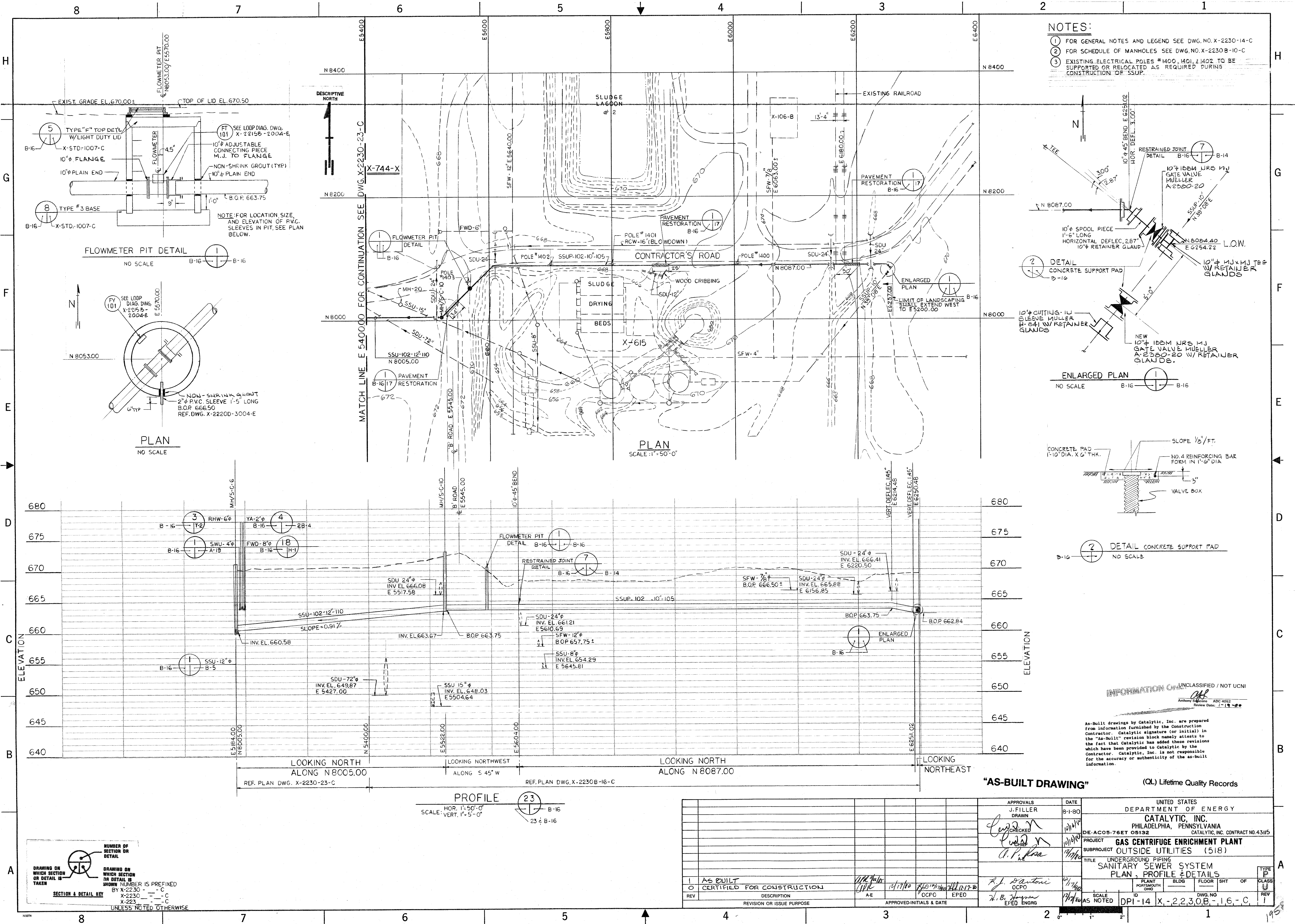


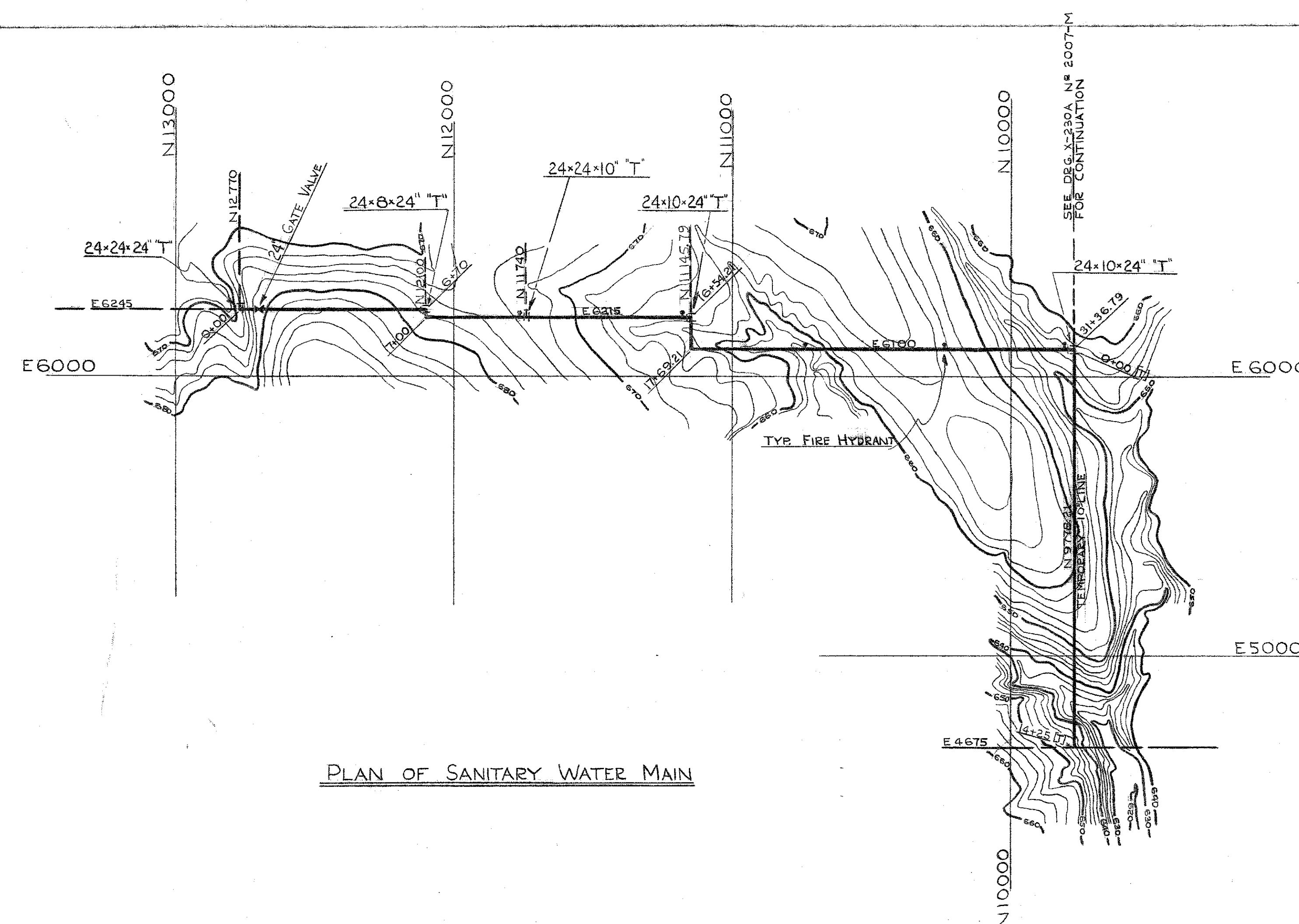
As-Built drawings by Catalytic, Inc. are prepared from information furnished by the Construction Contractor. Catalytic signature (or initial) in the "As-Built" revision block namely attests to the fact that Catalytic has added these revisions which have been provided to Catalytic by the Contractor. Catalytic, Inc. is not responsible for the accuracy or authenticity of the as-built information.

"AS-BUILT DRAWING"

(QL) Lifetime Quality Records

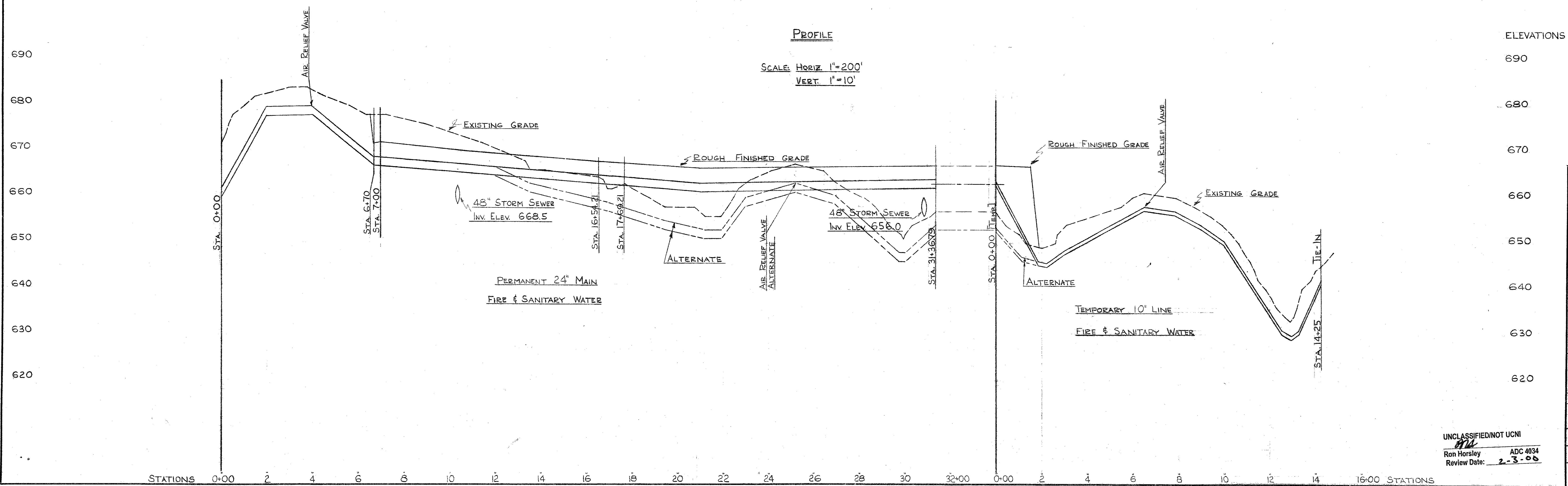
APPROVALS		DATE	UNITED STATES DEPARTMENT OF ENERGY	
C. R. PAGLIOTTI DRAWN		9/18/80	CATALYTIC, INC.	
C. S. CLIBERTI CHECKED		10-16-80	PHILADELPHIA, PENNSYLVANIA	
D. Hance CHIEF		11/1/80	PROJECT SUBPROJECT	
A. P. Rosa E.E.		12/1/80	DE-AC05-76ET 05132 CATALYTIC, INC. CONTRACT NO. 43115	
A. J. Bantoni OCPO		12/1/80	PROJECT SUBPROJECT	
S. B. Thompson EPEO ENGRG.		12/1/80	GAS CENTRIFUGE ENRICHMENT PLANT OUTSIDE UTILITIES (518)	
I AS BUILT		12/1/80	TITLE UNDERGROUND COMMUNICATIONS PLAN - AREA 4	
O CERTIFIED FOR CONSTRUCTION		12/1/80	PLANT PORTSMOUTH OHIO	
REV		DESCRIPTION	BLOG FLOOR SHT OF	
REVISION OR ISSUE PURPOSE		APPROVED-INITIALS & DATE	TYPE CLASS REV	
			ID DPI-14X-2220D-3004-E	
			SCALE 1"=50'	
			DWG. NO.	
			REV	





PLAN OF SANITARY WATER MAIN

SEE DRAWING X-230A N° 2005M DATED 12-5-52 FOR
PROPOSED OVERALL PLANNING



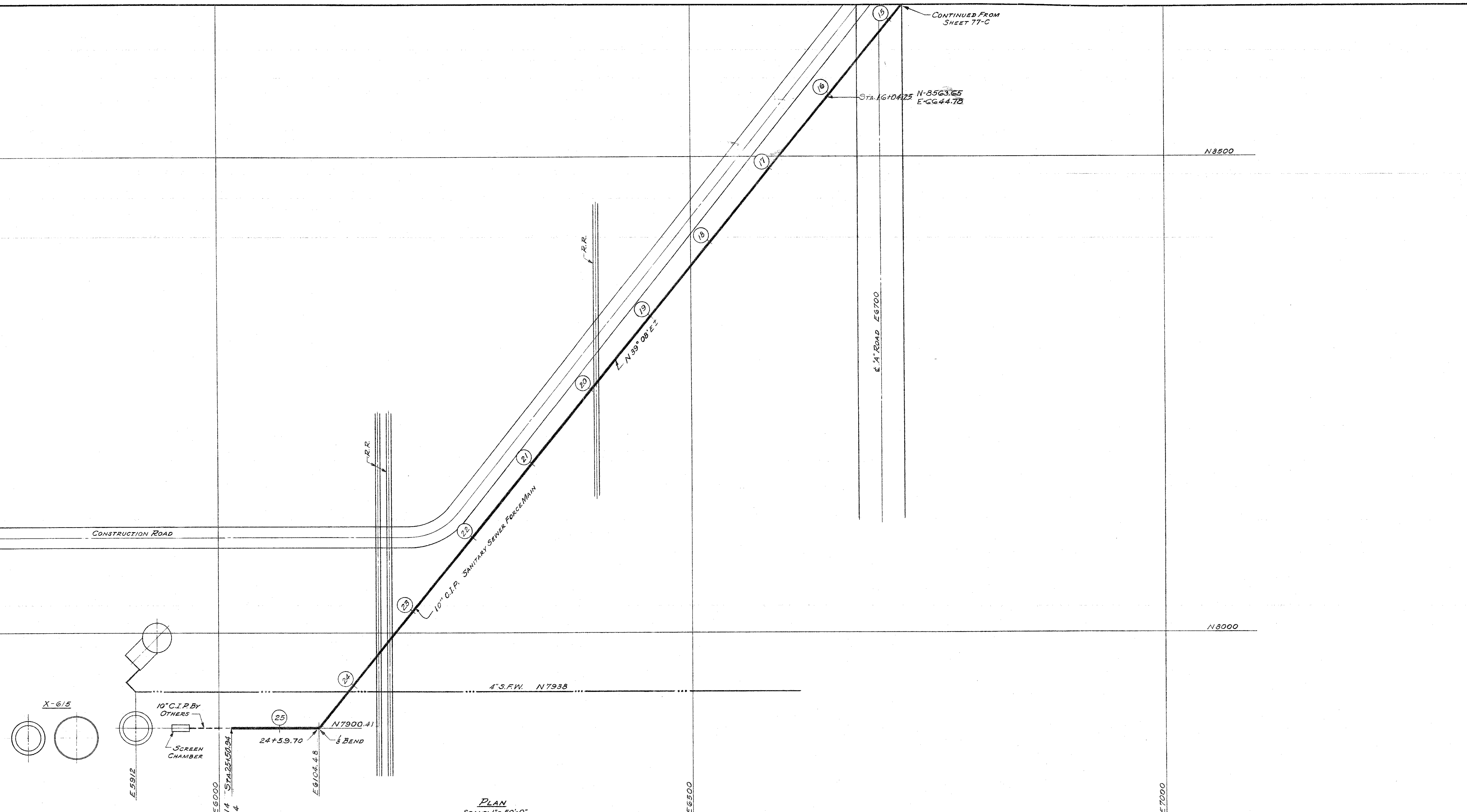
PROFILE

SCALE: HORIZ. 1"=200'
VERT. 1"=10'

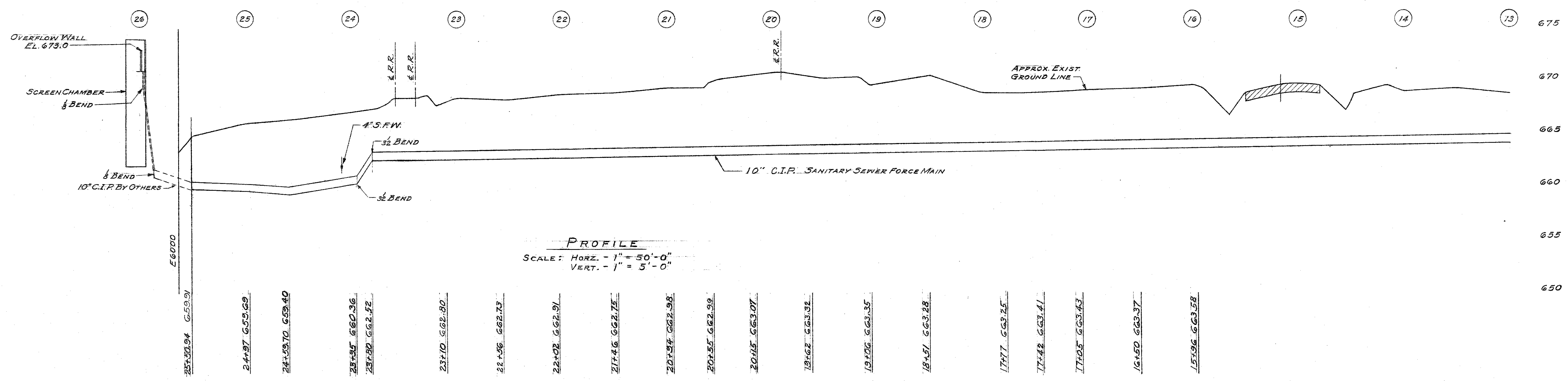
ELEVATIONS

INFORMATION ONLY			
AS BUILT AS REC'D FROM A.E. WAS REV. 0 DATED 12-9-52 BY A.E.C. 12/13/57			
UNITED STATES ATOMIC ENERGY COMMISSION			
A. M. KINNEY, INC. CONSULTING ENGINEERS CINCINNATI 19, OHIO A. E. C. CONTRACT No. AT-(40-1)-1373			
DRAWING TITLE TEMP. & PERM. WATER LINE-PLAN & PROFILE STA. 0+00-31+36.79 & STA. 0+00-14+25T			
DRAWING APPROVED DATE	DRAWING APPROVED DATE	DRAWING APPROVED DATE	
ARCHITECT-ENGINEER HARRY TRAY CHARLTON IN CHARGE PROJECT X SITE PORTSMOUTH AREA	CHECKED F. S. BANKES DATE 12/14/52 BUILDING X-230A	A. E. C. ENGINEER DATE 12/14/52 SHEET 114	DATE 12/14/52 SHEET 2006-M

UNCLASSIFIED/NOT UCN
Ron Horsley
Review Date: 2-3-00



PLAN
SCALE: 1" = 50'-0"



PROFILE
SCALE: HORIZ. - 1" = 50'-0"
VERT. - 1" = 5'-0"

UNCLASSIFIED/NOT UCN
Charles Crabtree ADC 4148
Review Date: 2-3-00

1426

INFORMATION ONLY

REV. NO.	DATE	DESCRIPTION	BY	DATE	DESCRIPTION	BY	DATE	DESCRIPTION
0		AS BUILT AS REC'D FROM A.E.						

UNITED STATES
ATOMIC ENERGY COMMISSION

A. M. KINNEY, INC.
CONSULTING ENGINEERS
A. E. C. CONTRACT No. AT-(40-1)-1373

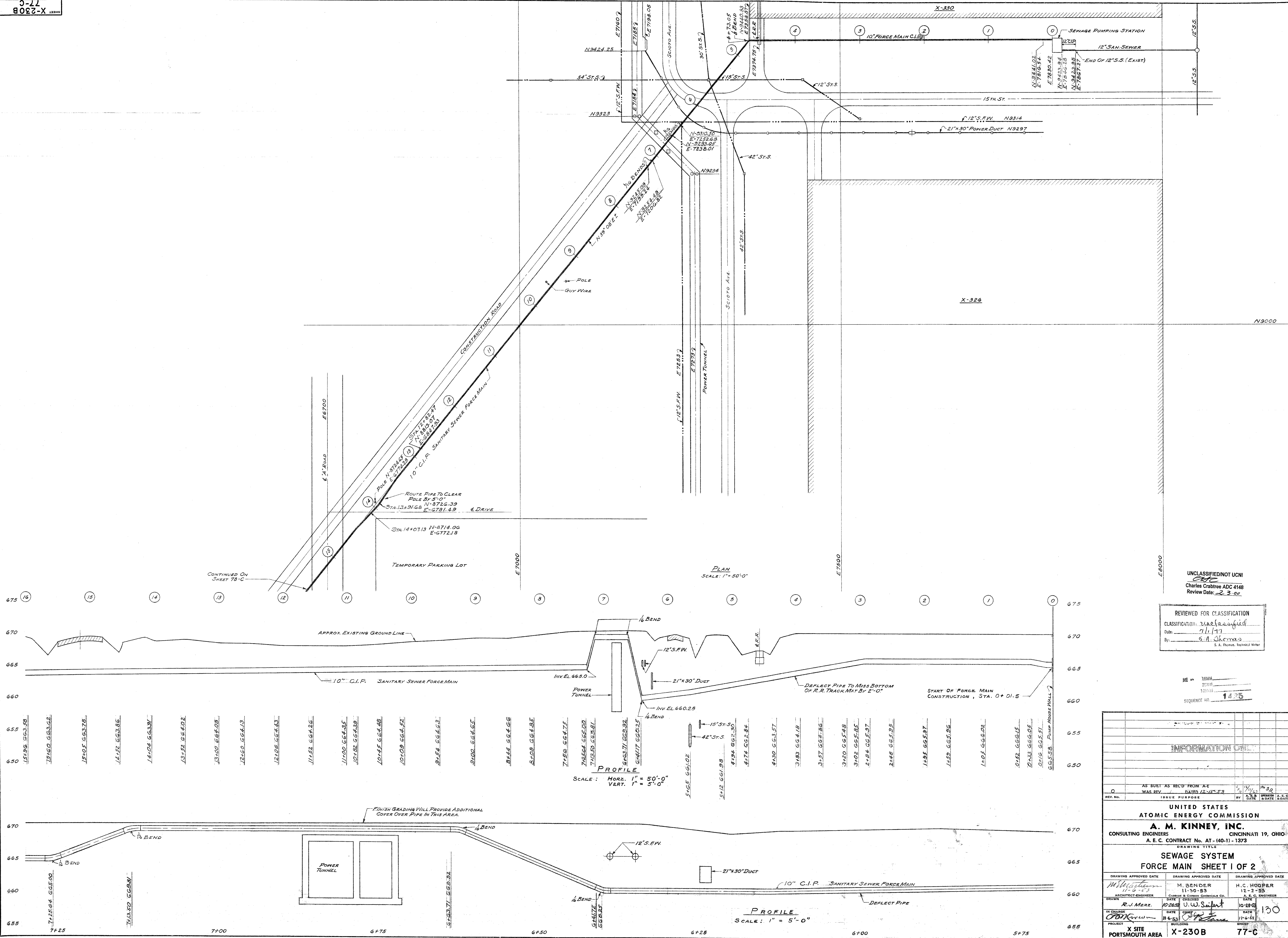
DRAWING TITLE
**SEWAGE SYSTEM
FORCE MAIN SHEET 2 OF 2**

DRAWING APPROVED DATE	DRAWING APPROVED DATE	DRAWING APPROVED DATE
11-30-53	11-30-53	11-30-53

IN CHARGE	DATE	DATE	DATE
R. J. Marz	10-28-53	10-28-53	10-28-53

PROJECT: X SITE
PORTSMOUTH AREA

X-230B
78-C

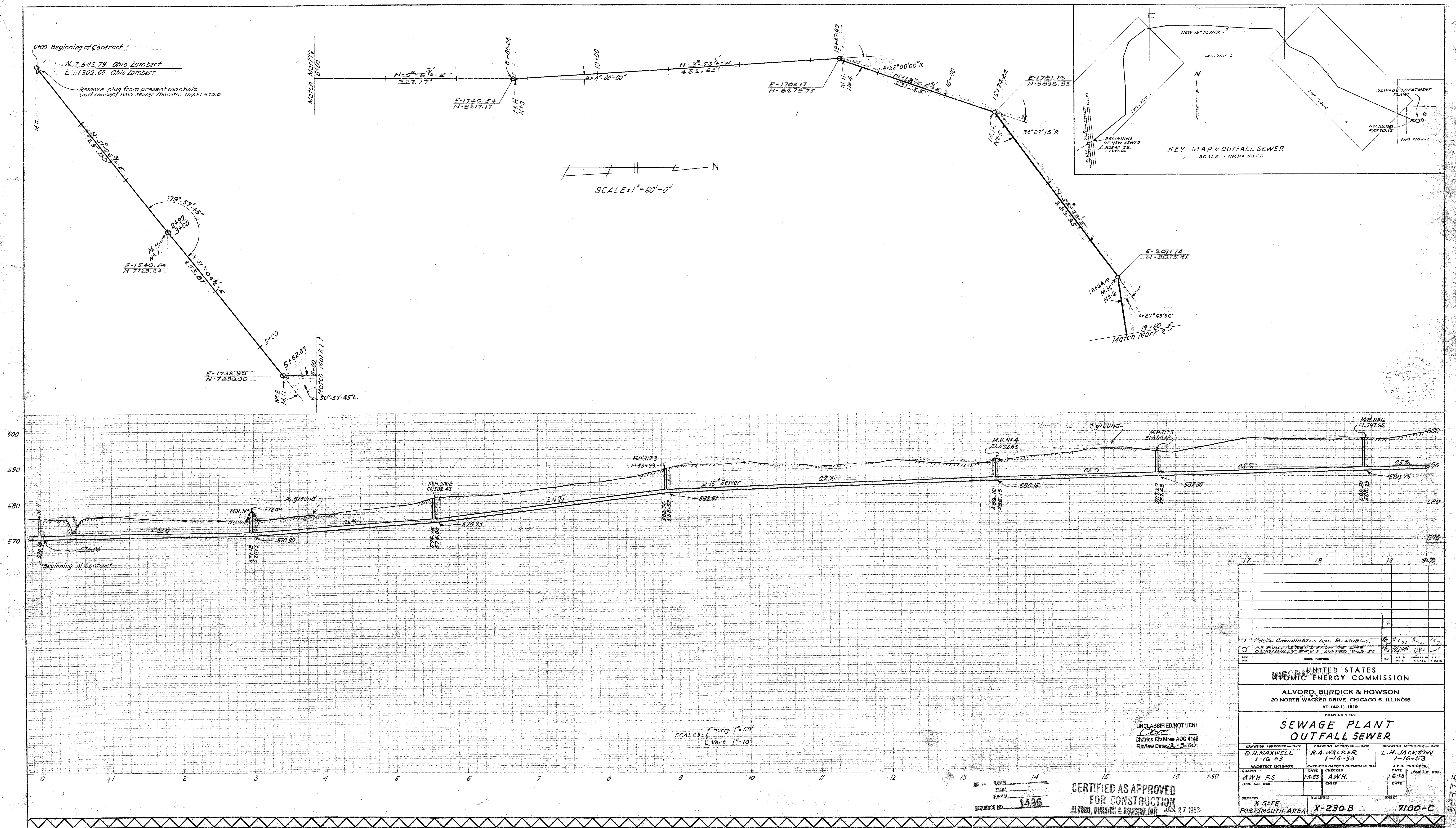


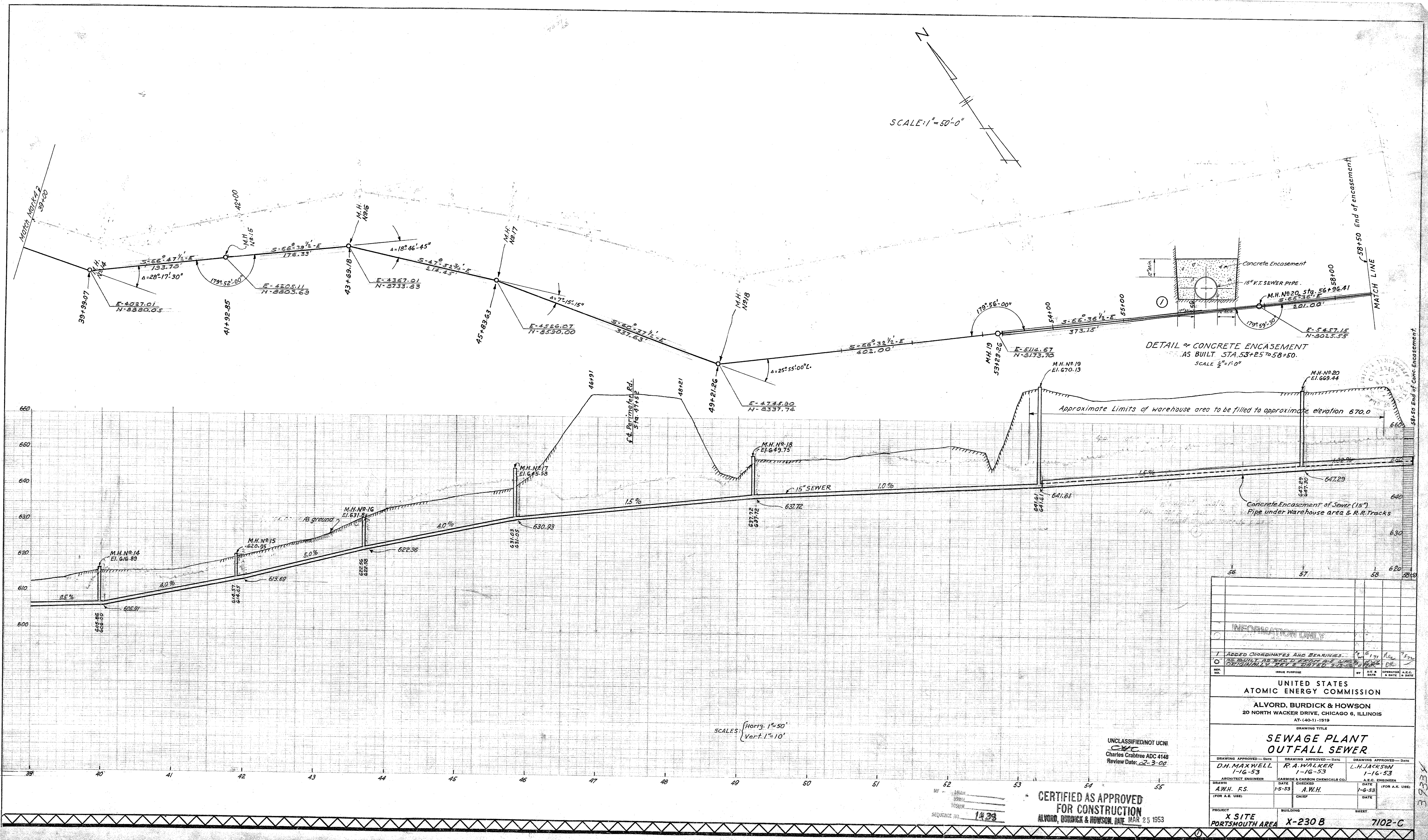
UNCLASSIFIED/NOT UCN
Charles Crabtree ADC 4148
Review Date: 2-3-00

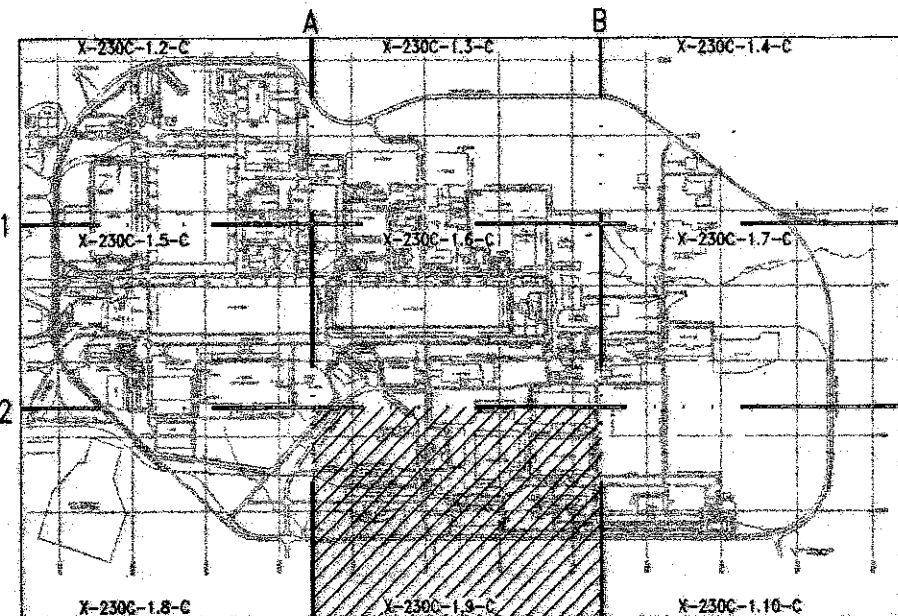
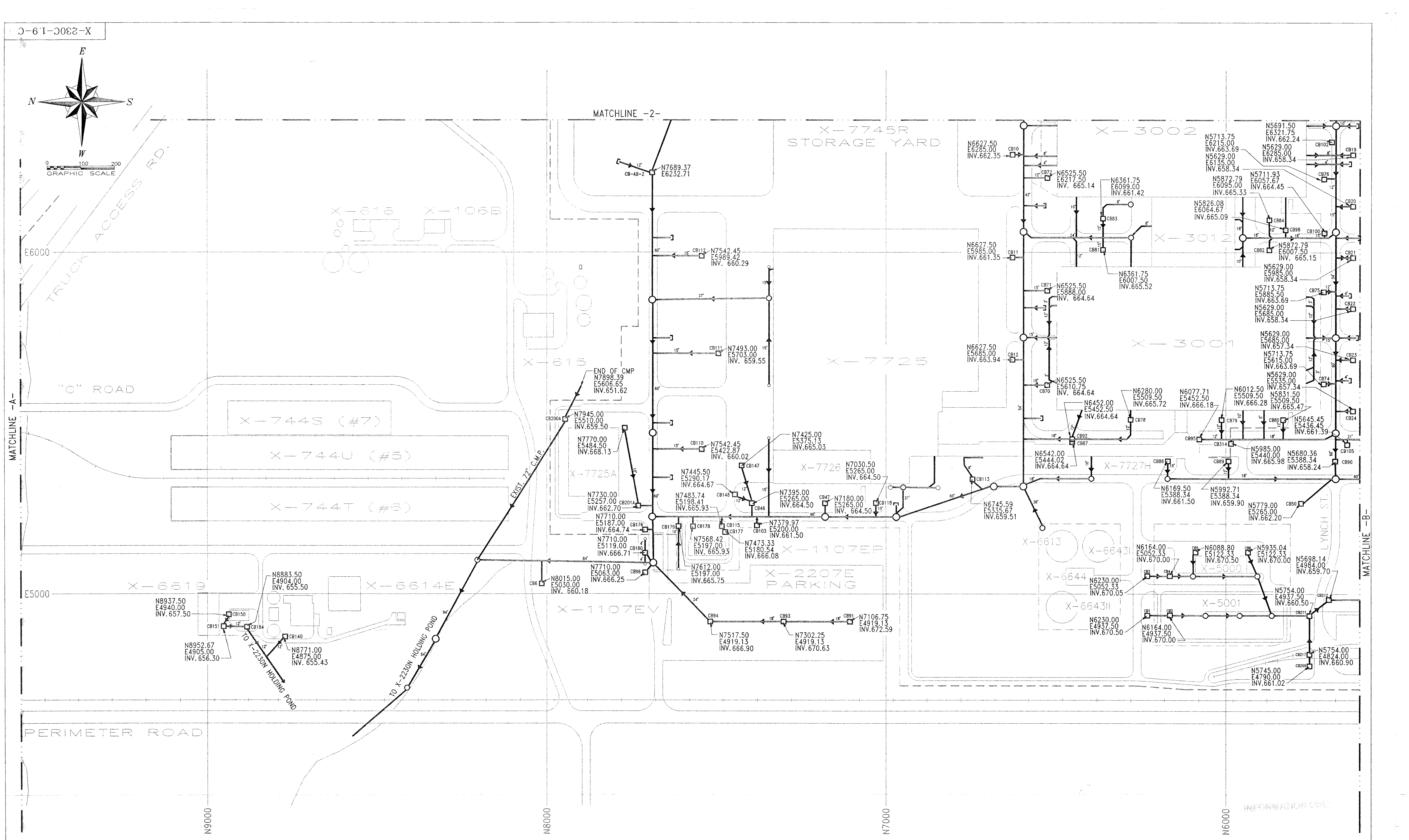
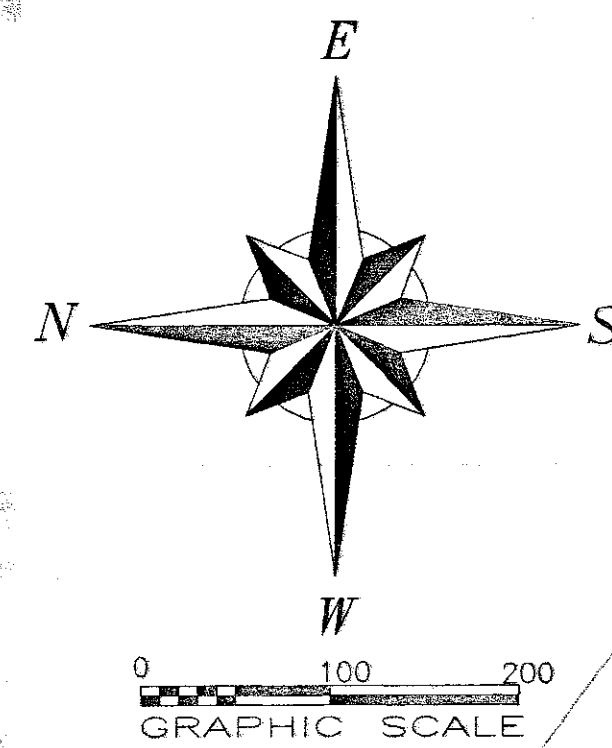
REVIEWED FOR CLASSIFICATION
CLASSIFICATION: UNCLASSIFIED
Date: 7-1-17
By: S.A. Thomas
S.A. Thomas, Technical Writer

ME 10/11/15
SC 10/11/15
SEQUENCE NO. 135

INFORMATION SHEET	
AS BUILT AS REC'D FROM A-E	DATE 12-15-53
REV. NO.	ISSUE PURPOSE
UNITED STATES ATOMIC ENERGY COMMISSION	
A. M. KINNEY, INC. CONSULTING ENGINEERS CINCINNATI 19, OHIO A. E. C. CONTRACT No. AT-(40-1)-1373	
DRAWING TITLE SEWAGE SYSTEM FORCE MAIN SHEET 1 OF 2	
DRAWING APPROVED DATE 11-50-53 M. BENDER ARCHITECT-ENGINEER	DRAWING APPROVED DATE 12-2-53 H.C. HOOPER A. E. C. ENGINEER
DATE 10-28-53 R.J. MERZ IN CHARGE	DATE 10-28-53 U.W. Sargent CHECKED
DATE 11-6-53 PROJECT	DATE 11-6-53 SHEET
X SITE PORTSMOUTH AREA	X-230B 77-C







LOCATION KEY

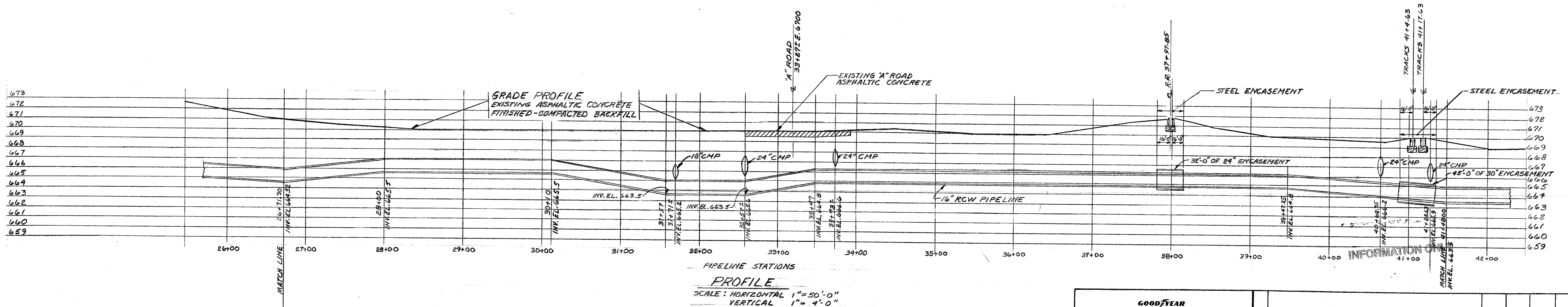
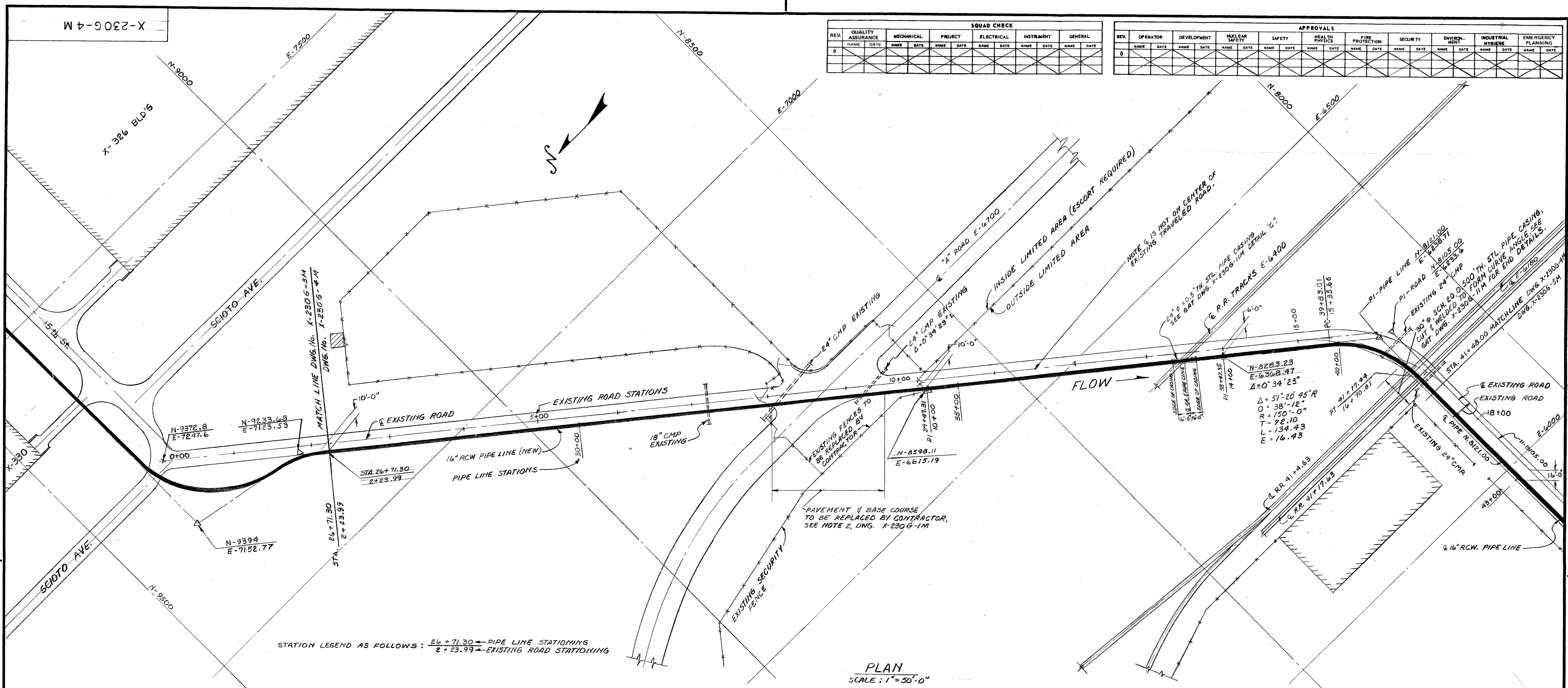
LEGEND	
	MANHOLE
	CATCH BASIN
	DIRECTION OF FLOW
	LINE CAPPED OFF
	FLOW DIRECTION OF ROOF
	HIGH POINT OF ROOF
	VALLEY LINE
	MATCHLINE

0 DRT LKA JMH		APPROVED FOR RELEASE		JMH 12/24/95	
REV	DWN	ENG	DEPT	USEC	DATE
REVISION OR ISSUE PURPOSE				APPROVED INITIALS AND DATE	
				USEC	

APPROVALS		DATE	UNITED STATES ENRICHMENT CORPORATION	
DONALD R TOMILSON		12/20/95	LOCKHEED MARTIN UTILITY SERVICES, INC.	
RANDY R MCROBERTS		12/20/95	P.O. BOX 628 PIKETON, OHIO 45661	
LARRY K ARTHUR		12/20/95	ACTING UNDER CONTRACT USEC-60-93-C-000 WITH THE U.S. ENRICHMENT CORPORATION	
JOHN M HORTEL		12/20/95	PROJECT ESO# 6048-95	
LMUS			SUBPROJECT	
			TITLE	
			PLANT STORM DRAIN SYSTEM	
			MATCHLINE -A-, MATCHLINE -B-,	
			MATCHLINE -2-	
			SCALE 1"=100'	
			X-230C-1.9-C	
			REV 0	

UNCLASSIFIED/NOT UCI
Charles Crabtree ADC 4148
Review Date: 2-3-00

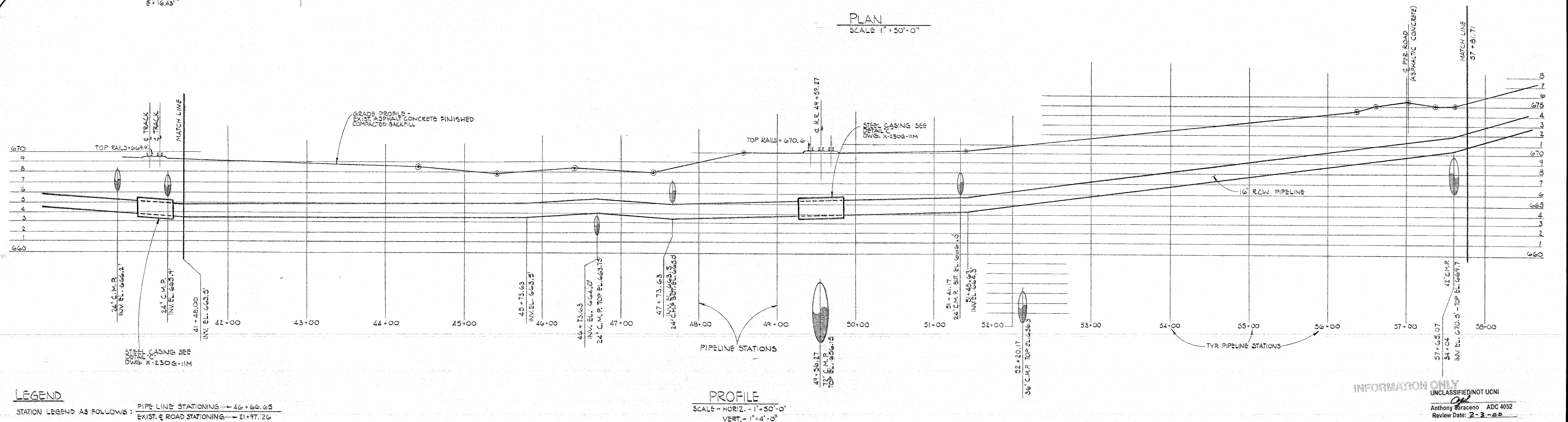
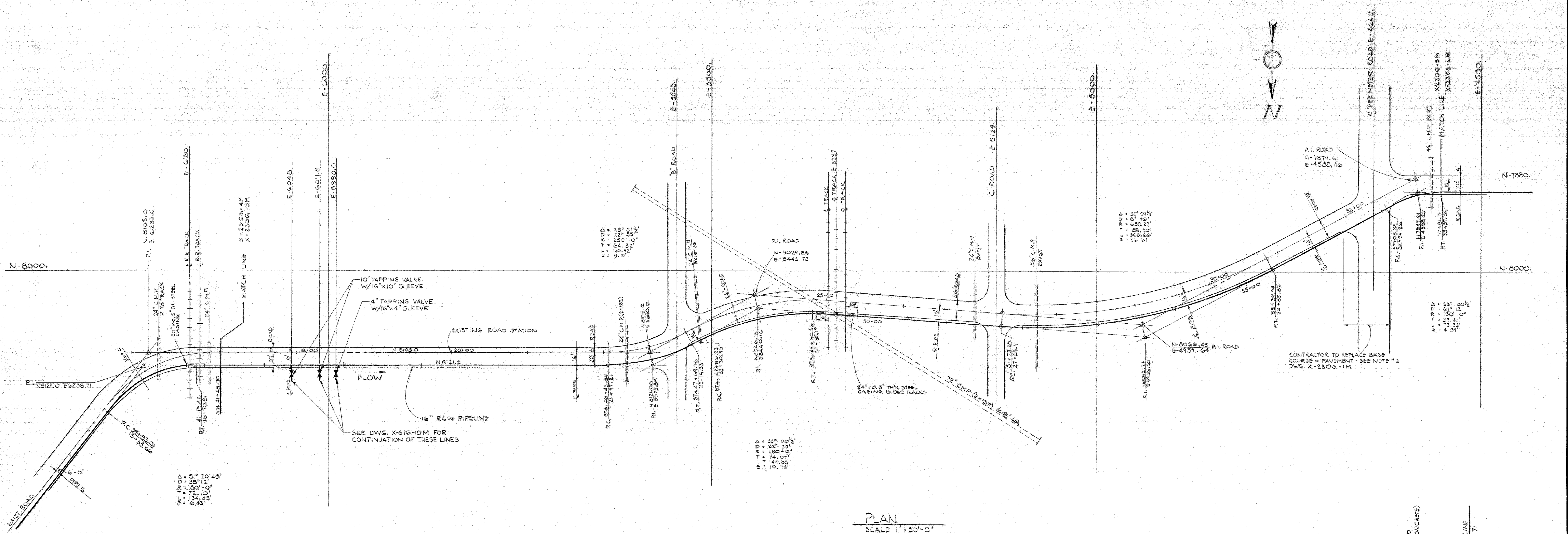
AUTOCAD

[illegible][illegible]

UNCLASSIFIED//NOT UCN
Anthony Saraceno ADC 4052
Review Date: 2-3-00

GOODYEAR GOODYEAR ATOMIC CORPORATION P. O. BOX 628 PIKETON, OHIO 45861 ACTING UNDER CONTRACT EY-76-C-05-0001 WITH THE U.S. DEPARTMENT OF ENERGY		0 REDRAWN WAS ORIGINALLY DWG. NO. DX-23170-M-4-REV.C		JCH 3/5/79	
REFERENCE:	ENGR H.E.M. DWN S.M. ANDERSON CHKD N.W. DUFFY SUPV J.C. Hewitt	10 DATE 56 11-21-78 22 78 3-5-79	R.C.W. WASTE LINE STA. 26+71.30 TO STA. 41+48.00		
SUBJECT MATTER PROPERTY OF GOODYEAR ATOMIC CORP. USE ONLY AS AUTHORIZED IN WRITING.		GAT ERDA	SCALE AS NOTED FAC X-SITE	X-230G-4 M	

39750

[illegible][illegible]

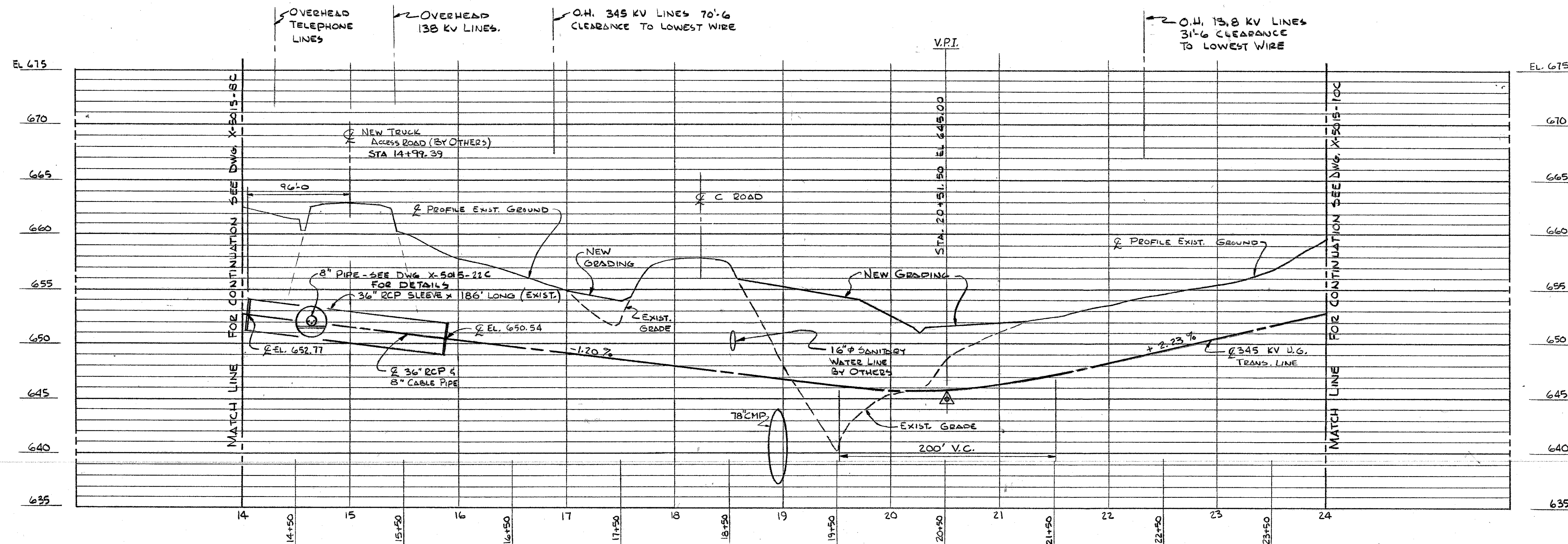
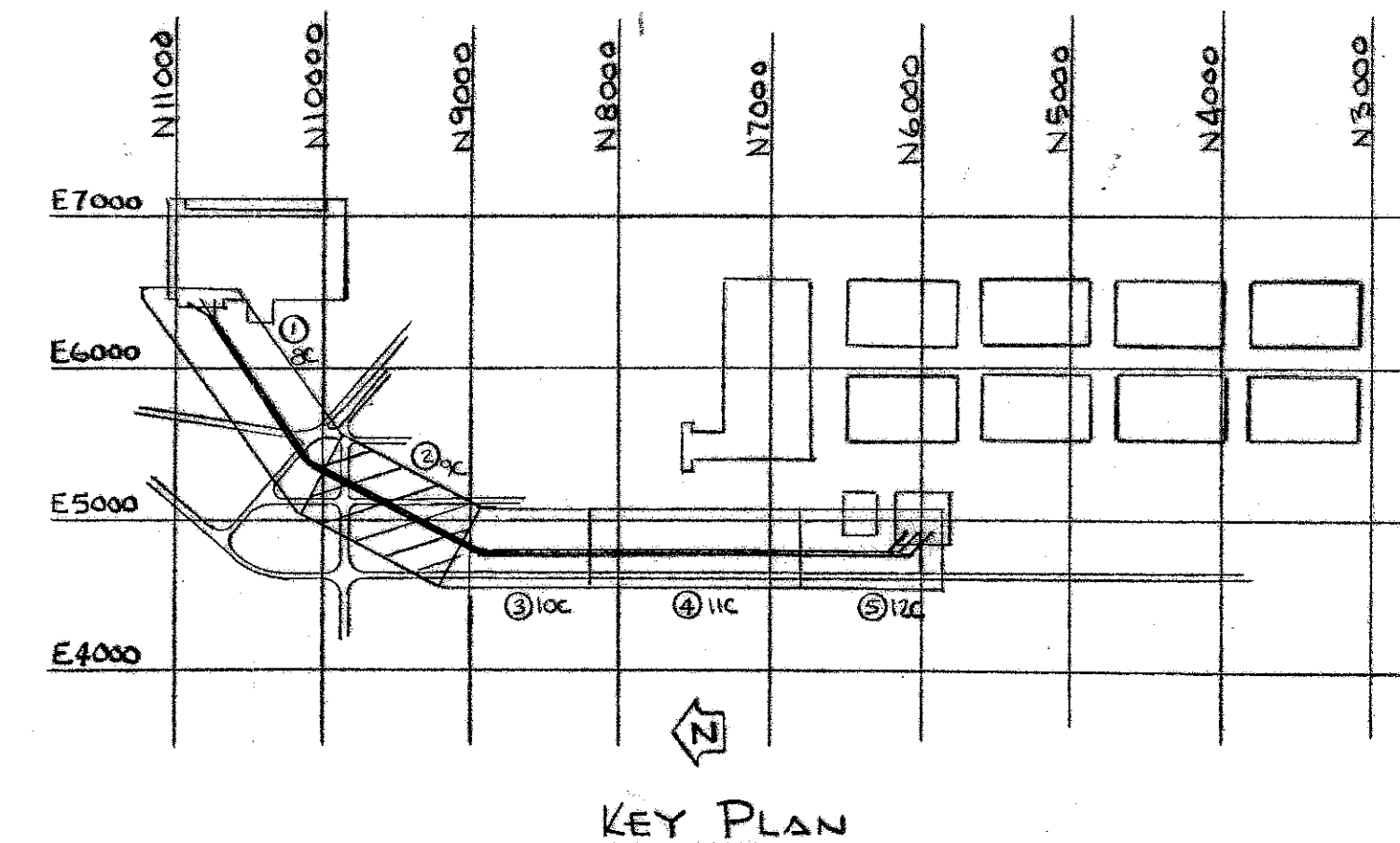
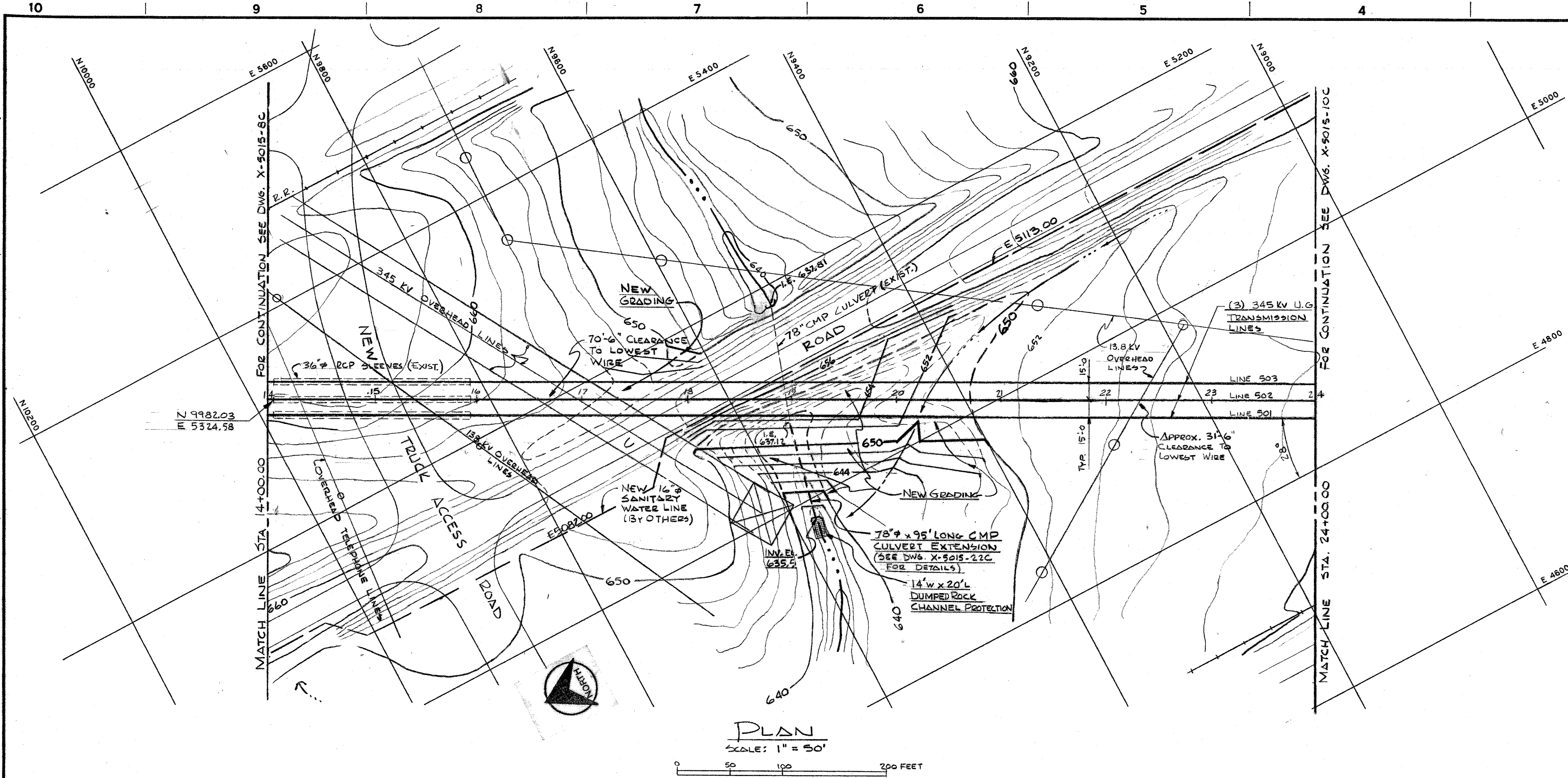
LEGEND

STATION LEGEND AS FOLLOWS :

PIPE LINE STATIONING	→ 46 + 66.65
EXIST. & ROAD STATIONING	→ 21 + 97.26

INFORMATION ONLY
UNCLASSIFIED/NOT UCNI
Anthony Saraceno ADC 4052
Review Date: 2-3-00

GOODYEAR GOODYEAR ATOMIC CORPORATION P. O. BOX 828 PIKETON, OHIO 45661 ACTING UNDER CONTRACT EY-74-C-69-0001 WITH THE U.S. DEPARTMENT OF ENERGY		O REDRAWN- WAS ORIGINALLY DWG. DX-13170-M5 REV. O 10-22-56		gch 3/4/79	
REFERENCE: X-230G-1M 11-2M 12-2M 13-2M 14-2M 15-2M 16-2M 17-2M 18-2M 19-2M 20-2M 21-2M 22-2M 23-2M 24-2M 25-2M 26-2M 27-2M 28-2M 29-2M 30-2M 31-2M 32-2M 33-2M 34-2M 35-2M 36-2M 37-2M 38-2M 39-2M 40-2M 41-2M 42-2M 43-2M 44-2M 45-2M 46-2M 47-2M 48-2M 49-2M 50-2M 51-2M 52-2M 53-2M 54-2M 55-2M 56-2M 57-2M 58-2M 59-2M 60-2M 61-2M 62-2M 63-2M 64-2M 65-2M 66-2M 67-2M 68-2M 69-2M 70-2M 71-2M 72-2M 73-2M 74-2M 75-2M 76-2M 77-2M 78-2M 79-2M 80-2M 81-2M 82-2M 83-2M 84-2M 85-2M 86-2M 87-2M 88-2M 89-2M 90-2M 91-2M 92-2M 93-2M 94-2M 95-2M 96-2M 97-2M 98-2M 99-2M 100-2M 101-2M 102-2M 103-2M 104-2M 105-2M 106-2M 107-2M 108-2M 109-2M 110-2M 111-2M 112-2M 113-2M 114-2M 115-2M 116-2M 117-2M 118-2M 119-2M 120-2M 121-2M 122-2M 123-2M 124-2M 125-2M 126-2M 127-2M 128-2M 129-2M 130-2M 131-2M 132-2M 133-2M 134-2M 135-2M 136-2M 137-2M 138-2M 139-2M 140-2M 141-2M 142-2M 143-2M 144-2M 145-2M 146-2M 147-2M 148-2M 149-2M 150-2M 151-2M 152-2M 153-2M 154-2M 155-2M 156-2M 157-2M 158-2M 159-2M 160-2M 161-2M 162-2M 163-2M 164-2M 165-2M 166-2M 167-2M 168-2M 169-2M 170-2M 171-2M 172-2M 173-2M 174-2M 175-2M 176-2M 177-2M 178-2M 179-2M 180-2M 181-2M 182-2M 183-2M 184-2M 185-2M 186-2M 187-2M 188-2M 189-2M 190-2M 191-2M 192-2M 193-2M 194-2M 195-2M 196-2M 197-2M 198-2M 199-2M 200-2M 201-2M 202-2M 203-2M 204-2M 205-2M 206-2M 207-2M 208-2M 209-2M 210-2M 211-2M 212-2M 213-2M 214-2M 215-2M 216-2M 217-2M 218-2M 219-2M 220-2M 221-2M 222-2M 223-2M 224-2M 225-2M 226-2M 227-2M 228-2M 229-2M 230-2M 231-2M 232-2M 233-2M 234-2M 235-2M 236-2M 237-2M 238-2M 239-2M 240-2M 241-2M 242-2M 243-2M 244-2M 245-2M 246-2M 247-2M 248-2M 249-2M 250-2M 251-2M 252-2M 253-2M 254-2M 255-2M 256-2M 257-2M 258-2M 259-2M 260-2M 261-2M 262-2M 263-2M 264-2M 265-2M 266-2M 267-2M 268-2M 269-2M 270-2M 271-2M 272-2M 273-2M 274-2M 275-2M 276-2M 277-2M 278-2M 279-2M 280-2M 281-2M 282-2M 283-2M 284-2M 285-2M 286-2M 287-2M 288-2M 289-2M 290-2M 291-2M 292-2M 293-2M 294-2M 					

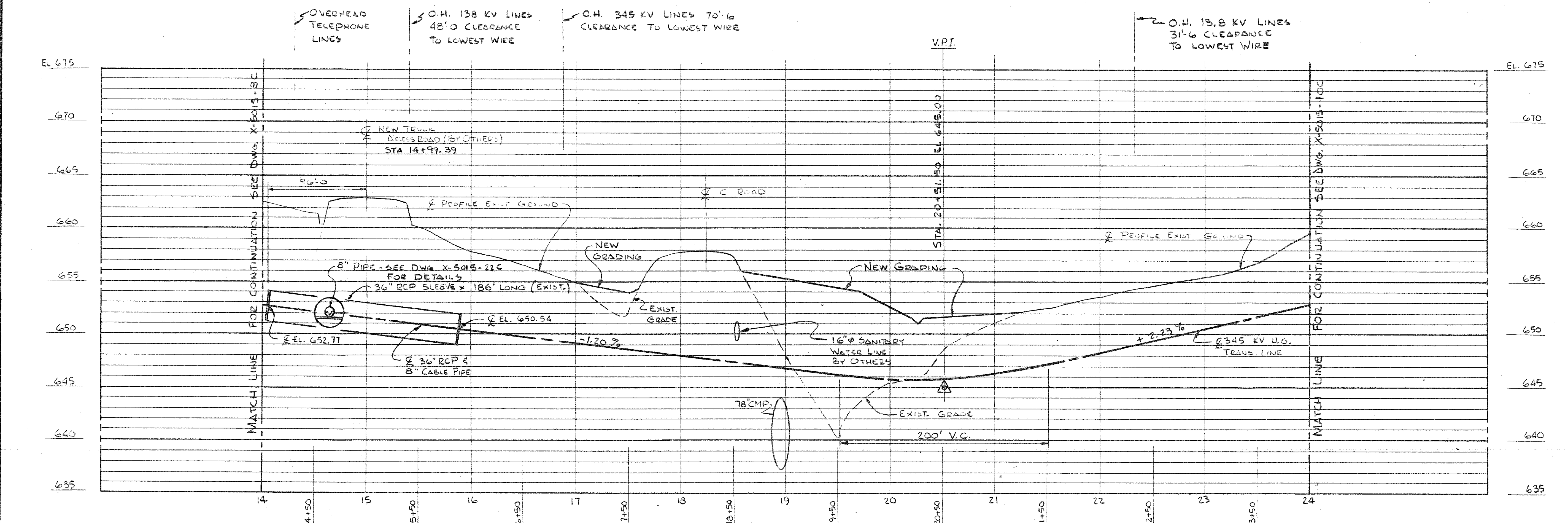
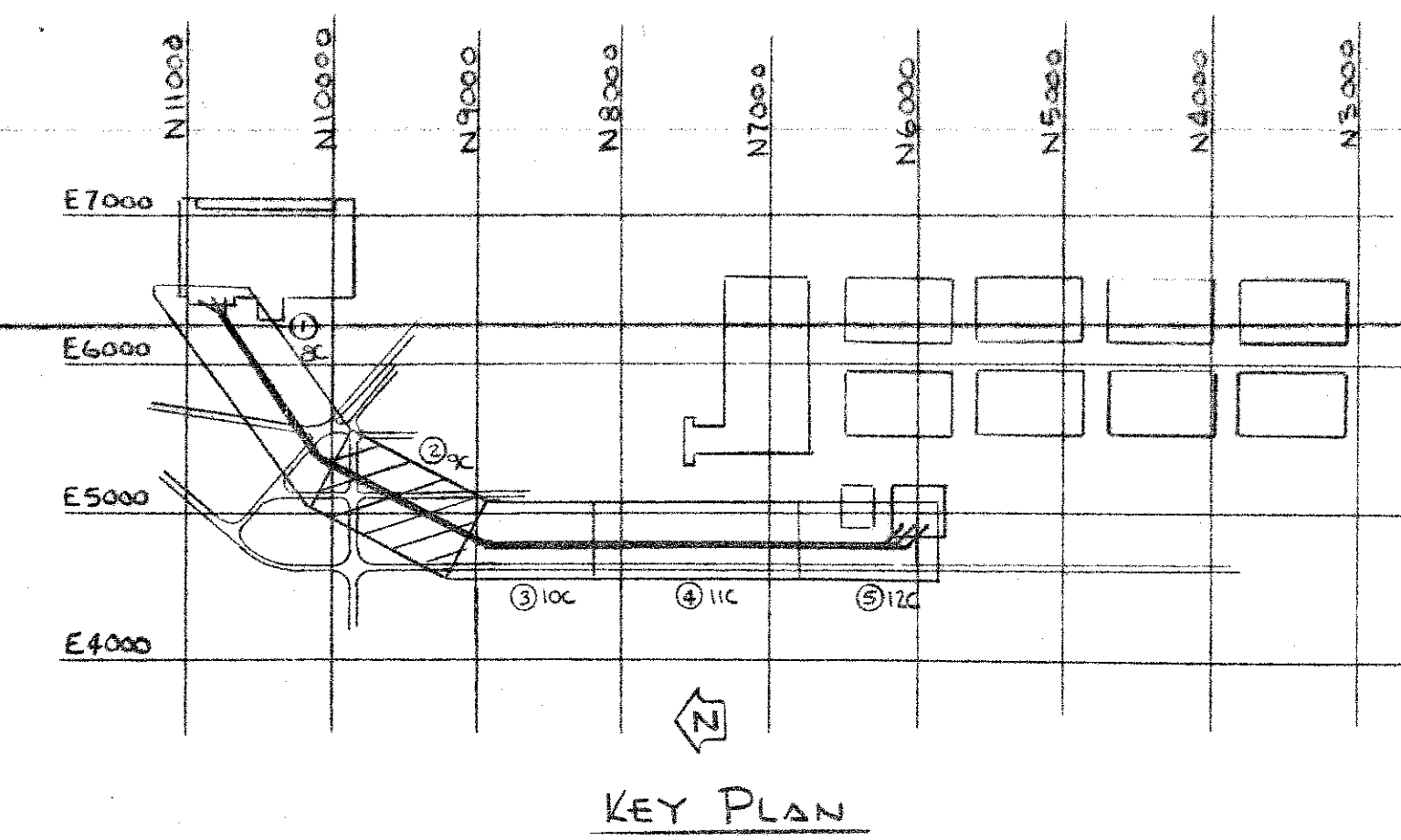
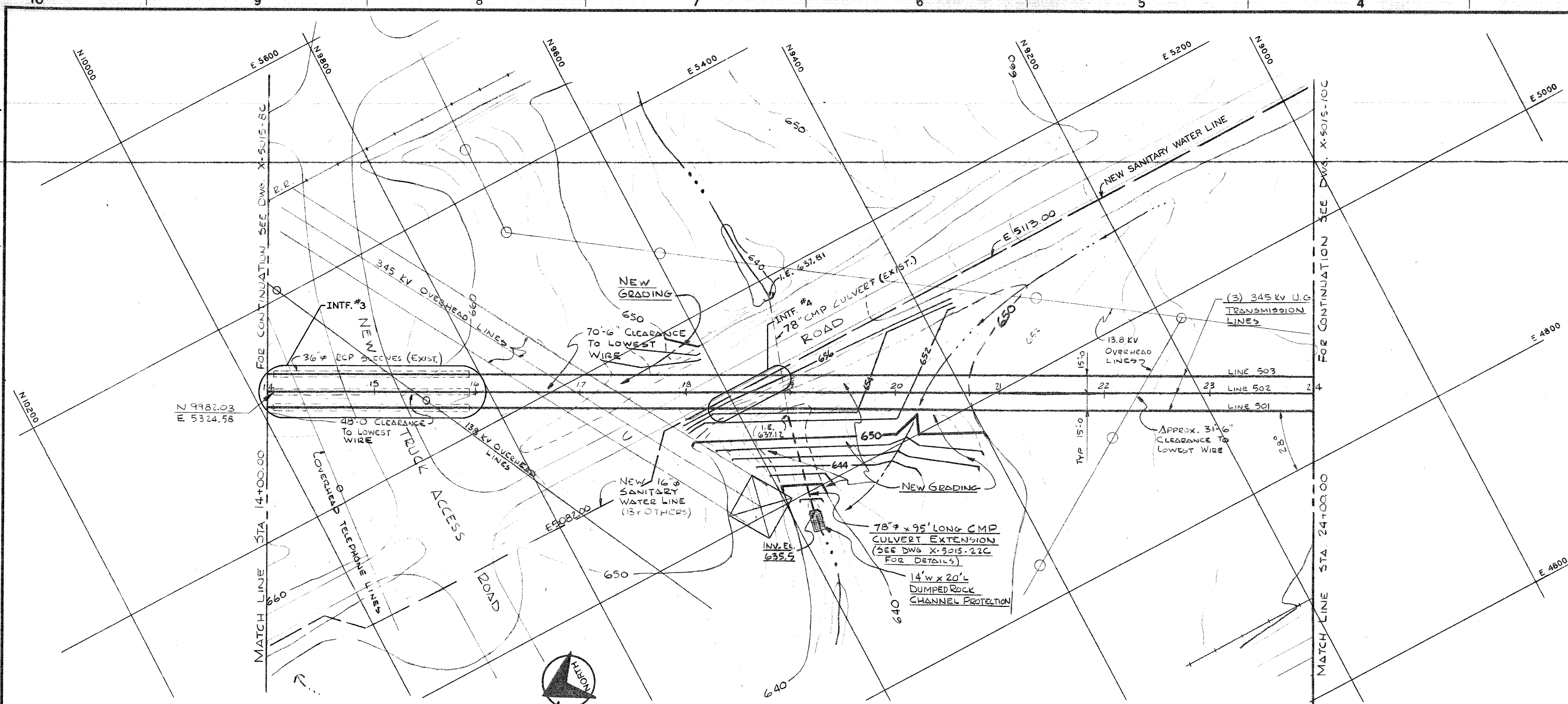


NOTES:
SEE DWG X-5015-8C

INFORMATION ONLY

14

APPROVALS		DATE	UNITED STATES DEPARTMENT OF ENERGY	
D. J. Vinton DRAWN		1/16/79	Gilbert/Commonwealth engineers/consultants/architects COMMONWEALTH ASSOCIATES INC. 208 E. Washington Avenue, Jackson, MI 48201 Tel. 517 786-3000 DE-ACOS-780035780	
D. D. Moore CHECKED		1/24/79		
D. D. Moore ENGINEER		1/24/79	PROJECT GAS CENTRIFUGE ENRICHMENT PLANT	
M. A. R. Jones P.E.		11-28-79	SUBPROJECT 345KV U.G. TRANSMISSION SYSTEM	
H. L. McCracken EPEO ENGR.		1/24/79	TITLE PLAN & PROFILE - PART 2	
0 CERTIFIED FOR CONSTRUCTION			PLANT X	BLDG X-5015
REVISION OR ISSUE PURPOSE		APPROVED INITIALS & DATE	SCALE AS NOTED	DWG NO. X-5015-9C
				CLASS U
				REV 0



NOTES:
SEE DWG X-5015-8C

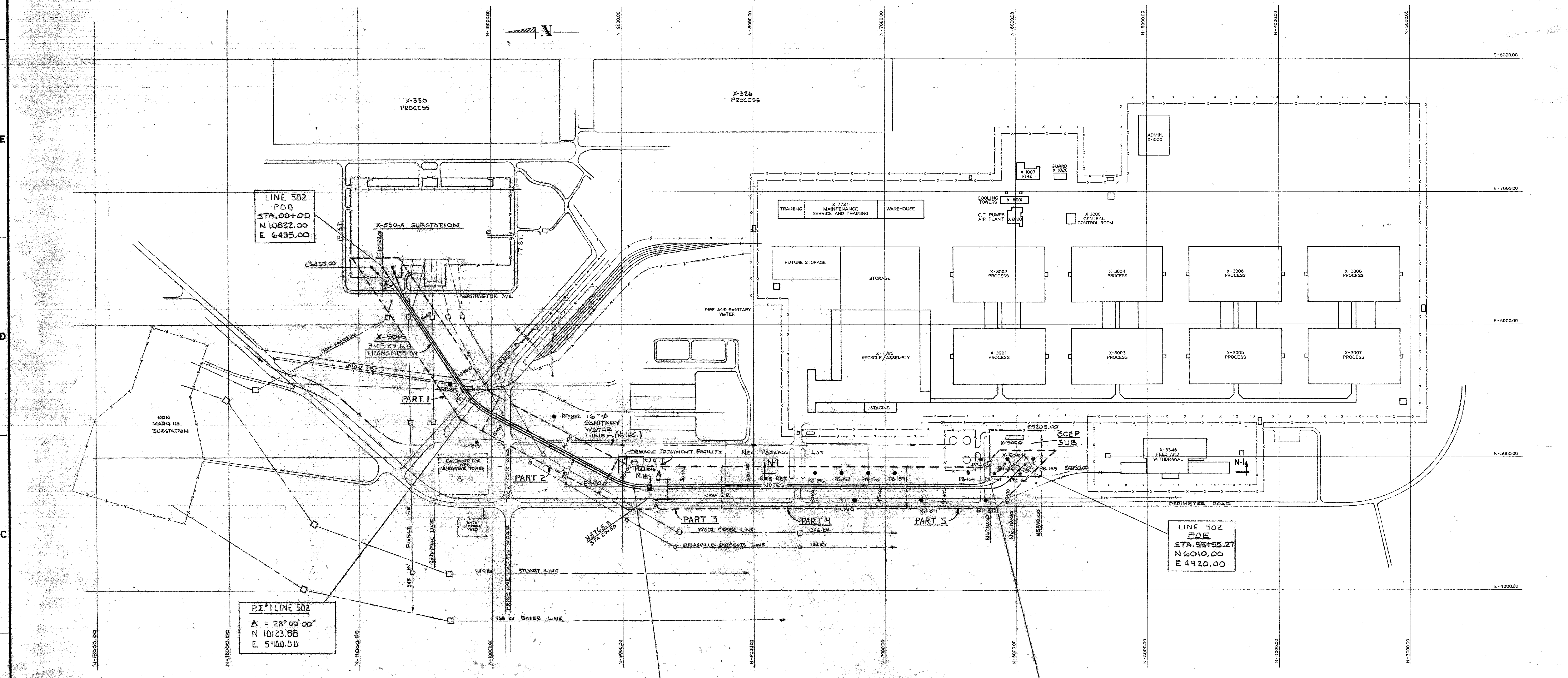
INFORMATION ONLY

INTERFACE DESIGNATION TABLE				
INTF. NO.	SID	COORDINATES	E. ELEV.	DESCRIPTION
3	02-A	E5280 N9897	651.6	TRUCK ACCESS ROAD CROSSING THROUGH EXISTING CONCRETE CULVERT SLEEVES
4	02-A	E5113 N9584	646.8	SANITARY WATER LINE

① SYSTEM INTERFACE DRAWING

* (TYPE II) GCEP INTERFACE CONTROL DRAWING

SIGNATURES		DATE	UNITED STATES DEPARTMENT OF ENERGY	
PREPARED	W.B. GREEN	4/12/79	 COMMONWEALTH ASSOCIATES INC. 200 E. Washington Avenue, Jackson, MI 49201 Tel: 517 788-3000 DE - ACOS - 780005780	
CHECKED	<i>[Signature]</i>	7/12/79		
COORDINATION			PROJECT GAS CENTRIFUGE ENRICHMENT PLANT	
CATALYTIC			SUBPROJECT 345KV U.G. TRANSMISSION SYSTEM	
SSC			TITLE *PLAN & PROFILE - PART 2 (WBS-413)	
EPEO			TYPE P	
ICWG CHAIRMAN APPROVAL			CLASS U	
- WAS DWG. CID-X5015-9C REV. 0 0 INITIAL ISSUE REV DESCRIPTION CAI CAT SSC EPEO ICWG			SCALE AS NOTED CP4-03 PLANT X BLDG X-5015 FLOOR SHT OF CLASS U DWG NO X-5015-9.1C REV 0	
APPROVED INITIALS & DATE				



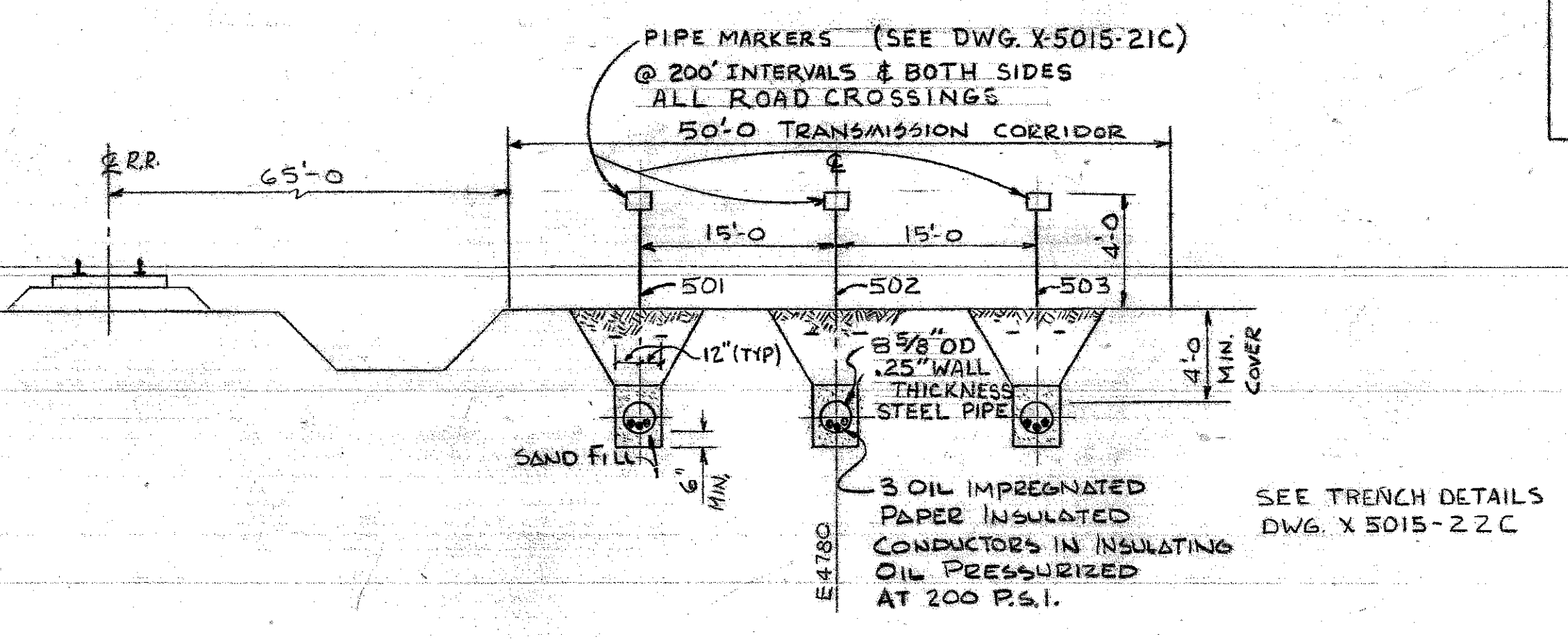
LINE 502
P.O.B.
STA. 00+00
N 10822.00
E 6435.00

PI 1 LINE 502
Δ = 28° 00' 00"
N 10123.88
E 5400.00

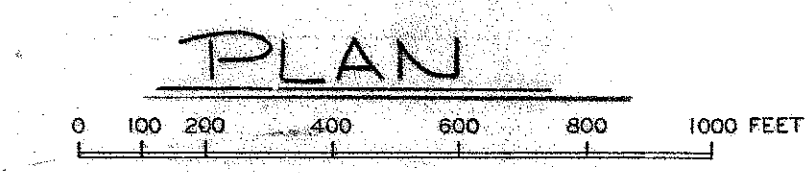
PI 2 LINE 502
Δ = 28° 00' 00"
N 8957.83
E 4780.00

PI 3 LINE 502
Δ = 45° 00' 00"
N 6150.00
E 4780.00

LINE 502
P.O.E.
STA. 55+55.27
N 6010.00
E 4920.00




SECTION A-A
TYPICAL SECTION 345 KV PIPE
TYPE CABLE SYSTEM
SCALE: 1" = 10'-0" HORIZ.
1" = 5'-0" VERT.



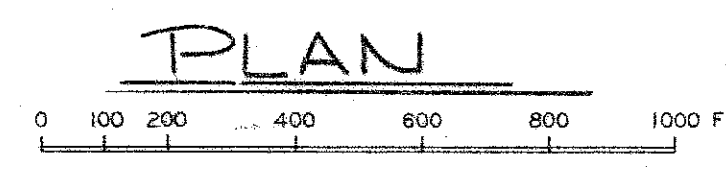
- REFERENCES:**
- GEOTECHNICAL INVESTIGATION (LAW ENG.)
 - BORING PLAN (PB-151, RP-810, ETC.)
 - CROSS SECTIONS (N-1)
 - CONTOURS TOP OF ROCK
 - GROUND WATER LEVEL CONTOURS
- FIGURE 2-1**
FIGURE 7-2: 7-7
FIGURE 7-11
FIGURE 7-29

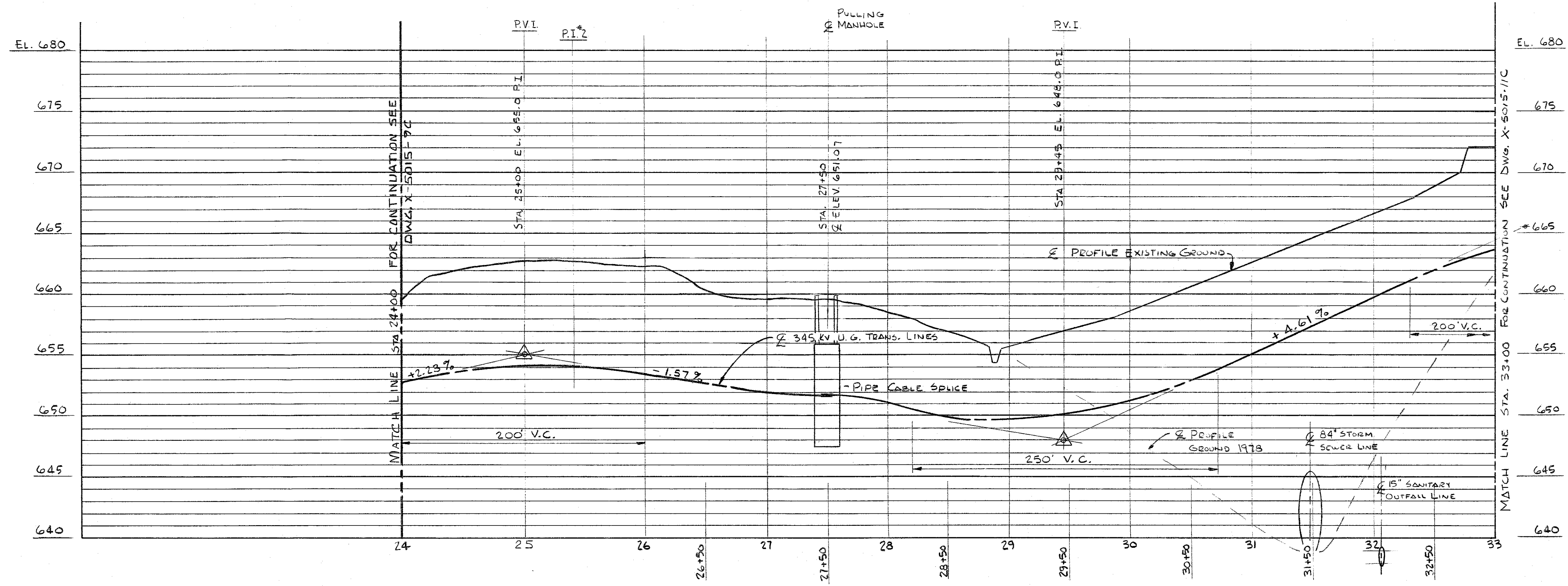
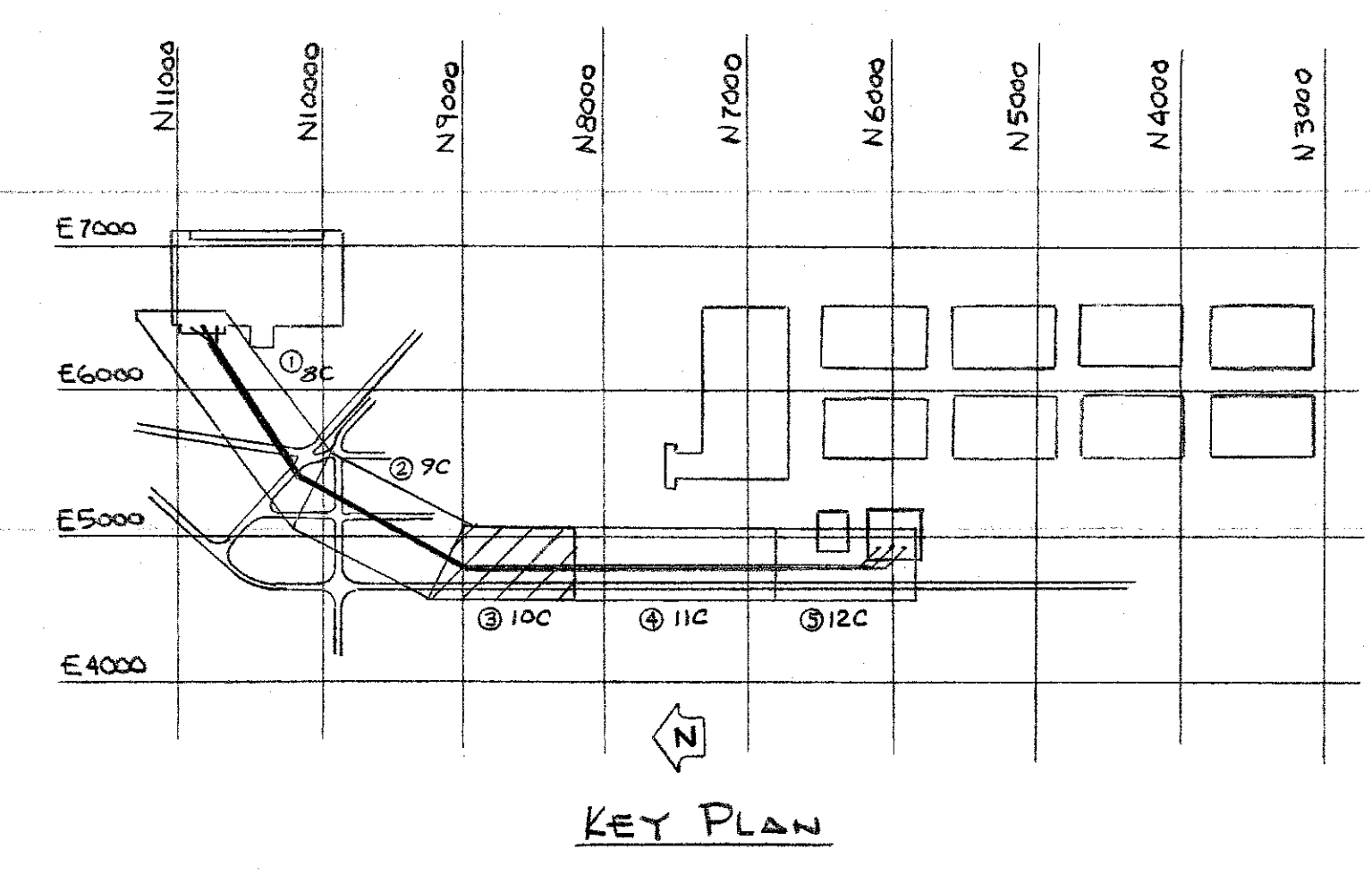
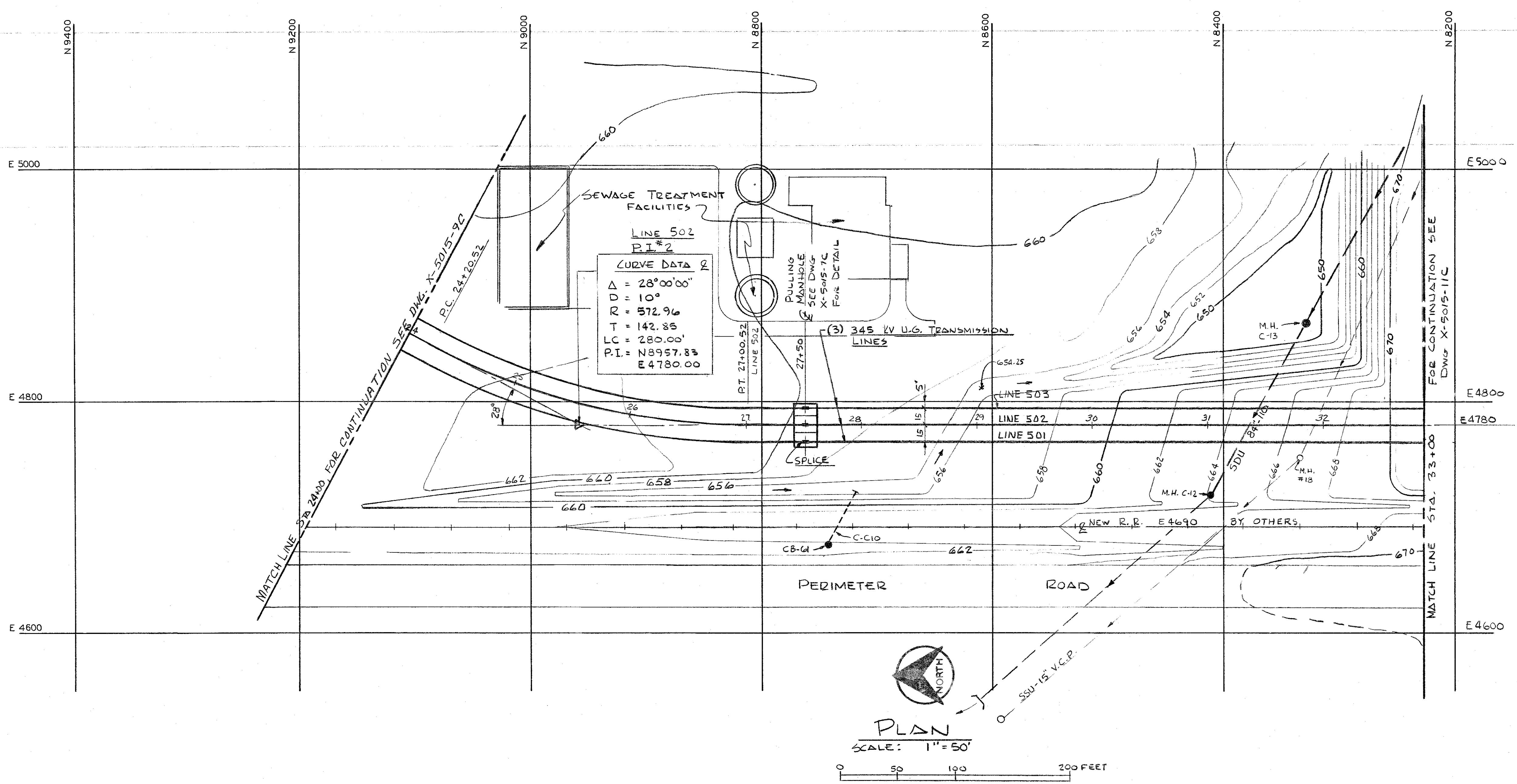
- INFORMATION ONLY**
- PLAN AND PROFILE DRAWINGS:**
- X-5015-8C PART 1
 - X-5015-9C PART 2
 - X-5015-10C PART 3
 - X-5015-11C PART 4
 - X-5015-12C PART 5

- DRAWINGS:**
- GCEP PLOT PLAN E-C-21013 REV. C (CATALYTIC)
 - GENERAL PLAN X-200 10.51-C (GOODYEAR)
 - TOPOGRAPHIC MAPS DX-761-6010 (METROPOLITAN MAPPING)
 - X-530 SWID EXT. LOWER PLAN X-530A-3E (C.A.I.)
 - GCEP SUB. PROPERTY PLAN X-5001-1E (C.A.I.)

										APPROVALS		DATE		UNITED STATES DEPARTMENT OF ENERGY									
										D. J. Van Horn		7-28-78		 Gilbert/Commonwealth engineers, consultants, architects COMMONWEALTH ASSOCIATES INC. 209 E Washington Avenue, Jackson, MI 49201 Tel 517 788-3000 DE ACOS 780285780									
										DRAWN													
										M. J. Rittman		7-31-78											
										CHECKED													
										J. J. Owens		7-31-78											
										ENGINEER													
										J. J. OWENS		8-1-78											
										P.E.													

① SYSTEM INTERFACE DRAWING

[illegible]



NOTES:
SEE DWG. X-5015-8C

INFORMATION ONLY

PROFILE ALONG U.G. LINE 502 (E4780)
SCALE: 1\"/>

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NOTE:

- 1 FOR GENERAL NOTES AND LEGEND SEE DWG. X-2230-14-C
- 2 FOR VALVES & REDUCERS NOT SHOWN ON "50" SCALE PLAN, SEE APPLICABLE ENLARGED PLAN.
- 3 CONTRACTOR IS TO NOTIFY THE CONTRACTING OFFICER 48 HRS BEFORE EXCAVATING AROUND THE EXISTING 16 INCH DIAMETER RCW BLOWDOWN LINE.

MATCH LINE E6560.00 FOR CONTINUATION SEE DWG. X-2230-18-C

X-3006

X-3004

X-3034

X-3003

X-3005

X-2207T

MATCH LINE N8150.00 FOR CONTINUATION SEE DWG. X-2230-15-C

As-Built drawings by Catalytic, Inc. are prepared from information furnished by the Construction Contractor. Catalytic signature (or initial) in the "As-Built" revision block attests to the fact that Catalytic has reviewed these revisions which have been provided to Catalytic by the Contractor. Catalytic, Inc. is not responsible for the accuracy or authenticity of the as-built information.

"AS-BUILT DRAWING"

(QL) Lifetime Quality Records

SECTION & DETAIL KEY

NUMBER OF SECTION OR DETAIL

DRAWING ON WHICH SECTION OR DETAIL IS TAKEN

DRAWING ON WHICH SECTION OR DETAIL IS SHOWN

NUMBER IS PREFIXED BY

X-2230-1-C

X-2230-2-C

X-2230-3-C

UNLESS NOTED OTHERWISE

APPROVALS		DATE	
J. FILLER DRAWN		2-5-83	
CHECKED		8/1/83	
APPROVED		8/1/83	
A. P. Rosa		8/1/83	
OCPO		EPEO	
EPEO ENGRG		8/1/83	
REV		DESCRIPTION	
2 AS BUILT		ADDED RHWR'S -243-12"-138 LINE	
0 CERTIFIED FOR CONSTRUCTION		A-E	
REVISION OR ISSUE PURPOSE		APPROVED-INITIALS & DATE	
		PLANT	
		PORTSMOUTH	
		OHIO	
		BUILDING	
		FLOOR	
		SHEET	
		OF	
		CLASS	
		U	
		REV	
		2	
		SCALE	
		1"=50'-0"	
		ID	
		DPI-14	
		DRAWING NO	
		X-2230-20-C	
		PROJECT	
		GAS CENTRIFUGE ENRICHMENT PLANT	
		OUTSIDE UTILITIES (518)	
		SUBPROJECT	
		UNDERGROUND PIPING	
		LOCATION PLAN-SHEET	
		TITLE	
		DE-ACOS-78050132	
		CATALYTIC INC CONTRACT NO 43115	
		PHILADELPHIA, PENNSYLVANIA	
		DEPARTMENT OF ENERGY	
		UNITED STATES	